Digitized by the Internet Archive
in 2014

https://archive.org/details/b19974760M0851

TELEPHONE 1852 NUMBER

THE CHEMIST AND DRUGGIST

TELEGRAPHIC ADDRESS CHEMICUS LONDON.

CHIEF OFFICE, LONDON: 42 CANNON ST. E.C.

Branch Offices: MELBOURNE and SYDNEY.

ESTABLISHED IN

ENGLAND ... 1859. AUSTRALASIA ... 1885.

Registered as a Newspaper. [*Registered for Foreign Transmission.*

Prix de l'abonnement:—The Chemist and Drnggist une fois par semaine, et l'agenda du Chemist and Druggist une fois par an, 12.50 francs par an, franco.

Abonnementspreis:—The Chemist and Druggist einmal wöchentlich, und Notizkalender des Chemist and Druggist einmal im Jahre, 10 Mark jährlich, frei in's Haus geliefert

Precio de suscricion:—The Chemist and Drnggist, nna vez por semana, y el Agenda del Chemist and Druggist una vez al año, 12.50 pesetas anuales franco.

No. 793 Vol. XLVI. JUNE 29, 1895.

Subscription, 10s. per Annum, including Diary, Post Free the World over. Single Copies, 4d. each, Post Free.

Allen & Hanburys Ltd.

are offering the undermentioned lines of their own manufacture now in demand, and will be pleased to submit samples and prices on request.

Compound Licorice Powder B.P.,

made from the finest materials, IN BULK, or put up in bottles of any size or shape, with labels bearing own name and address.

Compound Sulphur Tablets.

These being of our own manufacture we can guarantee the purity of ingredients. Put up in 1/- tin boxes, handsomely labelled, at 8/- per dozen, or in bottles of any size and shape, OR IN BULK.

Compressed Sulphur Lozenges.

These Compressed Lozenges are more agreeable than the ordinary kind, being less bulky. A very elegant form for the administration of sulphur.

Citrate of Magnesia.

Owing to our special facilities for manufacturing quantities to meet the large demand for this article, we can supply a high-class Citrate at a low price; it is put up in bottles of any special size and shape, with or without labels, ALSO SUPPLIED IN BULK. Supplied in two qualities. Inquiries invited.

Effervescent Saline.

The *British and Colonial Druggist*, writing of Allen & Hanburys' Saline, says:—"An effervescent saline in minute granules, which effectually obviates the caking which render so many salines in the market unpleasant to take." Put up in ½-lb. bottles, with or without labels and ornamental wrappers, OR IN BULK. Sample wrapper and prices on application.

Effervescent Granules (New Series).

These have been before the profession and trade for upwards of two years. The large and increasing demand for them is evidence of their great superiority over the old-fashioned granular preparations, in which there is often a large percentage of lumps and dust. All the commoner and more important drugs are supplied in this form. Put up in stopper-measure bottles, at 1/-, 2/6, and 4/6 retail, or 8/-, 21/-, and 40/- per dozen; also supplied in bulk at prices to be found on page 61 in our Wholesale Prices Current. Special quotations for large quantities.

Allen & Hanburys, Ltd. Plough Court, Lombard Street, **London.**

Laboratories & Warehouse: BETHNAL GREEN, LONDON, E. *West End Branch:* VERE ST., CAVENDISH SQUARE, W.
Cod Liver Oil Factories: LONGVA & KJERSTAD, NORWAY. *Australian Agency:* 484, COLLINS ST., MELBOURNE.

Exchange Column, p. 16. Advertisers' and Buyers' Reference List and Index to Advertisements, pp. 27–29.

THE INDEX REFERENCES APPLY TO FOLIOS AT FOOT OF PAGES.

MAY & BAKER, LTD.

GARDEN WHARF,

BATTERSEA, LONDON, S.W.

Telegraphic Address—"BISMUTH LONDON." A B C Code Used.

ESTABLISHED OVER 60 YEARS.

Telephone No. 9003.

PURE MERCURIAL SALTS

For Medicinal use; also for Anti-fouling, Kyanising, and all other Purposes.

BISMUTH SALTS AND PREPARATIONS.

CAMPHOR BELLS,

Flowers and Finest REFINED TRANSPARENT Tablets.

AMYL ACETATE. CHLOROFORM.
PEROXIDE OF HYDROGEN
(10, 12, and 20 Vols.).
PURE ACIDS, NITRIC, HYDROCHLORIC, &c., &c.
TEREBENE, PURE.
RECTIFIED AND METHYLATED ETHERS
And all Compounds.

FERRI ET AMMON. CITRAS, B.P.
FERRI ET QUIN. CITRAS, B.P.
SPTS. ETHER. NIT., B.P. & S.G. ·850.
SPTS. AMMON. AROMAT., B.P.
MAGNES. SULPH. EXSICC.
MAGNES. CALC. POND.
And all Pharmaceutical and General Chemicals.

Goods of our Manufacture can be obtained through the Leading Wholesale Houses.

TO CHEMISTS!

OUR HOMŒOPATHIC MEDICINES

Have by far the Largest Sale, and leave an exceptionally Large Margin of Profit on Retailing, while our name and reputation, the longest honoured in English Homœopathy, attract the desired custom.

PARCELS ENCLOSED DAILY to any of the London Wholesale Houses to Save Carriage.

A HANDSOME AND ATTRACTIVE SHOWCASE IS

"GIVEN TO EVERY AGENT"

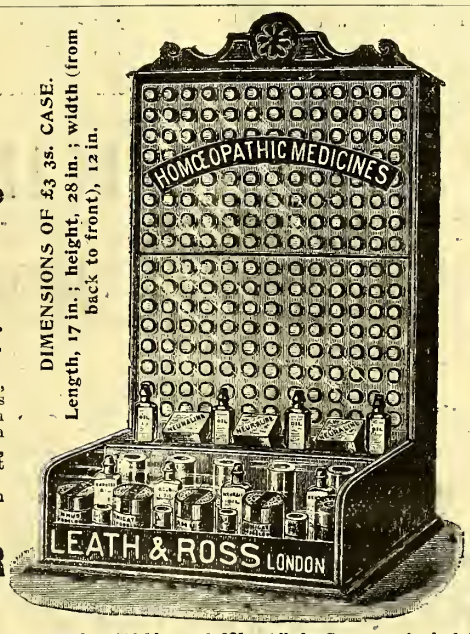
With opening order amounting to £3 3*s.* and upwards.

OUR £5 Handsome and Attractive CASE (OPEN BACK OR FRONT).

This handsome Case stands unrivalled for style, convenience, and beauty, increasing the sales very considerably, and is fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.
DIMENSIONS Length, 19¾ in.: width (from back to front), 11½ in.; height, 32½ in.

NO CHARGE WHATEVER FOR THE CASE.

DIMENSIONS OF £3 3*s.* CASE.
Length, 17 in.; height, 28 in.; width (from back to front), 12 in.



Our TINCTURES, PILULES, and CAMPHOR

Are in great demand everywhere, and can be had in any strength from the ϕ (mother), 1*x* : 1, and upwards.

1/- Size

3/6 per doz. Cash.

9d. size, 2/9 ,,

6d. size, 2/- ,,

Agents' Cases, upright or flat, at £3 3*s.*, £4 4*s.*, £5, £6 6*s.*, £10 10*s.*, and £21. All the Cases can be had in Mahogany, Walnut, or other Fancy Wood to match Shop Fittings, and fitted with 6*d.* stock, 6*d.* and 1*s.* stock, 9*d.* and 1*s.* stock, or all 1*s.* stock, as preferred.

OPINIONS OF THE TRADE

ON OUR HANDSOME COUNTER SHOWCASES.

J. W. B. S. says:—"I am delighted with the splendid Case. It is a very good addition to my counter, and I hope you will find many customers for such an exceedingly good and excellent supply of Homœopathic Medicines."

T. H. writes:—"Many thanks for Case, which arrived safe. I like it very much, and it certainly gives a handsome appearance to my counter."

LEATH & ROSS, Wholesale and Export Homœopathic Chemists,
9 VERE ST., OXFORD ST., W. (WHOLESALE DEPARTMENT)
And JEWRY HOUSE, OLD JEWRY, E.C. } **LONDON.**

THE GLASS-LINED SYPHON CO., LIMITED.

(*Incorporated 31st January*, 1891, *under the Companies Acts*, 1862 *to* 1890.)

SHARE CAPITAL - - - £50,000.

In Shares of £1 each. Subscribed Capital, £10,000. Further Issue of 40,000 Shares of £1 each, payable as follows:—5s. per Share on Application, 5s. per Share on Allotment, Balance one month after notice.

DIRECTORS.

H. J. NICOLE, Esq. (Proprietor of D. L. A. Nicole & Co., Watch Manufacturers, &c.), *Managing Director*, 85 St. John Street Road, E.C.
P. NICKINSON, Esq., 51 Chancery Lane, W.C.
L. H. W. FOSTER, Esq., 107 Canfield Gardens, N.W.
* DANIEL BARNARD, Esq. 66 Gellatly Road, St. Catherine's Park, S.E.
* (Will join the Board after Allotment).

BANKERS.

THE LONDON AND COUNTY BANKING CO. (LIMITED), Islington Branch; also Head Office, 21 Lombard Street, E.C., and Branches.

SOLICITORS.

Messrs. NICKINSON, PRALL & NICKINSON, 51 Chancery Lane, W.C.

AUDITORS.—Messrs. FORD, RHODES & FORD, 23 College Hill, E.C.

SECRETARY (*pro tem.*).—Mr. W. E. KING.

OFFICES.

LONDON: 183A St. John Street Road, E.C.
PARIS: 115 Boulevard Sebastopol.
FACTORIES { 51 Boulevard St. Jacques, Paris; and 183A St. John Street Road, London, E.C.

ABRIDGED PROSPECTUS.

THE main object of this Company is to manufacture, sell, and otherwise work Syphons and Seltzogenes made according to the valuable patented inventions of Mr. H. J. Nicole, which are known as Glass-Lined (throughout) Syphon Heads, and for the Manufacturing and Sale of Aërated Mineral Waters and similar business.

Since the incorporation of the Company business has been carried on with the small Capital of £10,000, and with that Capital the Company has provided a Factory in Paris, and a Stock which has enabled a profitable business to be established, both in London and Paris.

Business, however, is now largely increasing, and the invention growing so much in public favour, that the orders for the Syphon Heads, and for Mineral Waters in Bottles fitted with the Patent Syphon Heads, are much greater than the Company can meet with its present Capital.

As an example it may be stated that the sales of Mineral Waters are 40 per cent. more than the sales of 1894, and that though the Company have 60 000 of their Syphons in use and 30.000 in Paris themselves, they are not able, without further Capital, to execute half the orders which have been sent them, until further Syphons are manufactured and Mineral Water Plant laid down.

The Company holds the patents for France, Belgium, Austria, Canada, the United States of America, and Australia, and the total value of them, taken at a low estimate, is believed to be £30,000.

The present issue of Capital is made for the purpose of paying off the existing Debentures, amounting to £7,500, and to enable the Company to manufacture the further Glass Lined Syphons required and lay down the necessary plant to do the increased trade which is within their immediate power.

The Company has earned in the past year from the London Mineral Water trade alone a profit which would have enabled it to fairly pay a dividend of 4½ per cent. on the past £10,000 capital of the Company, and the Directors are of opinion that the Company will be able with the increased capital and trade to pay a dividend of from 7½ to 20 per cent.

Successful trading in Mineral Waters, even with the ordinary Syphons, has been shown by other companies, and notably by the Chemists' Aërated Mineral Water Association (Limited). The following are the dividends paid by that Company:—

1889.	A dividend of	7½	per cent.
1890.	Do.	8¾	"
1891.	Do.	10	"
1892.	Do.	10	"
1893.	Do.	10	"

And a 10-per-cent. Bonus, equal to 20 per cent.
1894. A dividend of 10-per-cent,
And a 5-per-cent. Bonus, equal to 15 per cent.

Full Prospectuses and Forms of Application for Shares can be obtained from the Bankers or Solicitors of the Company, or at the Company's Offices, in London.

Trade Mark

Registered.

TYPKE & KING

CHEMICAL MANUFACTURERS,

22 LAURENCE POUNTNEY LANE, LONDON, E.C.

Works—MITCHAM and RAINHAM.

Telegraphic Address, "*Valerianic London.*" *Telephone No.* 11402.

Trade Mark

Registered.

Notice of Removal.

We beg to advise you that on and after the 1st of July our City Offices will be at

7 JEFFREY SQUARE, ST. MARY AXE, LONDON, E.C.,

to which address kindly send all communications.

We would take this opportunity of thanking you for your past favours, and solicit a continuance of same. We shall be pleased to quote you for any of our Specialities thereof.

Yours faithfully, TYPKE & KING.

PHILIP JOSEPHS, 54, 68, and 83 OLD STREET, CITY RD., LONDON, E.C.

Has always in Stock a large assortment of Second-hand and New Drawers, Counters, Dispensing Screens, Glass Wall and Counter Cases, and every requisite for Fitting-up a Shop within 24 hours at prices less than any other house. Inspection invited. *See Coloured Supplement each week under "Miscellaneous."*

CLOSED ON SATURDAYS.

ESTABLISHED HALF A CENTURY.

GEO. TREBLE & SON,

CHEMISTS' SHOP FITTERS.

PLANS AND ESTIMATES SUPPLIED FREE OF CHARGE.

59 AND 61 RHODES STREET, HOLLOWAY, LONDON, N.

THE "FLY CEMETERY"

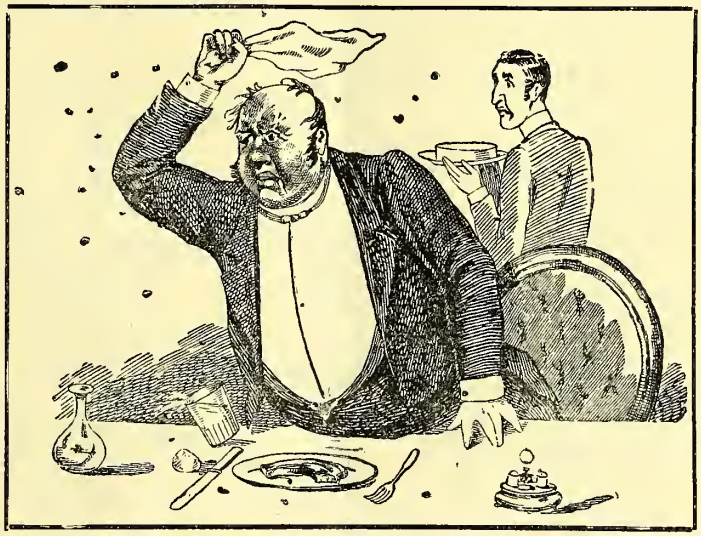
BY ROYAL LETTERS PATENT.

NON-POISONOUS.

The ORIGINAL and by far the BEST Sticky Fly Paper in the Market.

ANNUAL SALE MILLIONS

Catches more Flies in a day than the old-fashioned Papers do in a week.



Well known in every Household in the Kingdom.

Bears Large Profits.

PRICE ONE PENNY.

The immense popularity of the "**FLY CEMETERY**" with the public has had the usual result attending the introduction and prosperity of all genuine articles in raising up a host of *imitations*, which for the most part disappoint the purchaser. We therefore warn our friends not to be misled by specious announcements, but when they order Sticky Fly Papers to insist upon having the "**FLY CEMETERY.**"

SOLD BY ALL THE LEADING WHOLESALE HOUSES. LIBERAL TERMS.

SAMPLES AND TESTIMONIALS FROM

TUNBRIDGE & WRIGHT, MANUFACTURERS, READING.

NORTH OF ENGLAND DEPOT—
4 GALLOWGATE, NEWCASTLE-ON-TYNE.

TELEGRAMS—
"FLIES READING."

IMPORTANT NOTICE.

In order that our Customers may not suffer any loss through deterioration of Stock kept during the Winter, we are willing to Exchange any thus left over for Fresh Stock at the commencement of a new Season. We only ask our friends to assist us by ordering judiciously, especially towards the latter part of the Season.

CLEAN TO USE.

1d.

EACH.

DOES NOT SPOIL BY KEEPING.

THE ONLY REEL COMFORT.

MARSHALL'S

FLY CATCHER

IS NOT OFFENSIVE TO THE SIGHT.

Catches more Flies than Sticky Papers.

Can be carried in the Pocket.

1d.

EACH.

GOOD IN ANY CLIMATE.

Specially suitable for Export.

1 gross, 7/-. 10 gross at 6/6 per gross net.

Stocked by all the Leading London and Provincial Houses; or of the Manufacturer,

E. MARSHALL, HENFIELD, SUSSEX.

COLONIAL AND FOREIGN:—

AFRICA—Lennon & Co.
AUSTRALIA—Felton, Grimwade & Co.; Francis & Co.; Elliott Bros. & Co.; Faulding & Co.
CANADA—Lyman Bros. (Limited), Toronto.
NEW ZEALAND—Kempthorne, Prosser & Co.
UNITED STATES—Warrick Freres, New York.

'THE SPIDER'

IS MADE WITH

YORKSHIRE BIRDLIME

And Sticks like it.

TRY IT.

'THE SPIDER.'

'THE SPIDER.'

NO RISK.

ALWAYS FRESH.

Write for Particulars of our New Scheme,

BLEASDALE, LIMITED, YORK.

FLYODOOMO

FLYODOOMO

FLYODOOMO

THIS IS THE NEW NAME FOR

SMITH'S FLY STICKERS

The Cleanest, Stickiest, and Best Fly Papers in the Market. Carefully rolled up so that the Composition cannot possibly get outside. Own Name and Address on 100-gross quantities.

Large Buyers should write for Samples and Quotations.

½d. and 1d. Sizes.

MAKER OF SUPERIOR FLY LIME.

SAMPLE AND PRICE ON APPLICATION.

JOHN H. SMITH, NEWARK-ON-TRENT.

CHRISTY STRONG

Begs to inform the Trade that he is now manufacturing

MACHINE-MADE FLY PAPERS, the "GRIP" and the "COBWEB," a great improvement on the hand-made paper. They are the admiration of all who have seen and tested them.

5/- Per Gross, Post Paid.

Cash must accompany order.

Progressive Traders should compare by sending for post-paid Samples.

READING.

WISE SAYINGS WITH A MODERN APPLICATION.

"Look on the bright side of everything."
Wasps, &c., generally look on the sweet side, hence the success of Buchan's Death Jam.

BUY THEREFORE

THE PERFUMED STICKY FLY ENTICER.

1D. 1D.

Fly Enticer Gum.

Tins 2d. each.

The Surest and Best Fly Catcher.

TRADE MARK (Registered).

Death Jam.

Kills Wasps, Mosquitoes.

Tins, 6d, 1/-, and 2/6.

Most Alluring and very Sticky.

Send for Samples NOW, Post Free.

To be obtained from the principal Drug and Sundries Houses, or from the Manufacturer—

D. D. BUCHAN, FRIOCKHEIM, N.B.

Telegrams—"Buchan Friockheim."

Sole Export Agents—BURGOYNE, BURBIDGES & CO., 16 Coleman Street, London, E.C.

"The most powerful germ-destroyer at present known to science."

NON-CAUSTIC! NON-CORROSIVE! NON-POISONOUS!

IZAL

Disinfectant.

An entirely unique discovery, *not a coal-tar product.* Sinks, Traps, W.C.'s, Drains, &c., flushed at trifling cost, a 2*s.* 6*d.* bottle making 30 gallons of strong, reliable Disinfectant.

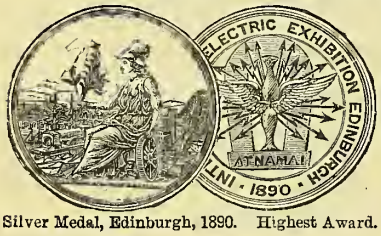
Izal Disinfectant possesses far greater germ-destroying power than pure carbolic acid, mixes more readily with water, and is entirely free from the dangers and objections attending the use of carbolic.

Izal is supplied by the chief Wholesale Houses.

For Showcards, Pamphlets, and all particulars respecting Izal Disinfectant and Preparations, Soaps, Powder, Embrocation, Ointments, Smelling Salts, &c., apply to **ALLEN & HANBURYS, Bethnal Green, London,** the Sole Bottling Agents for the Manufacturers.

WANDSWORTH CHEMICAL WORKS, LTD.

CARBOLIC DISINFECTANTS.



Silver Medal, Edinburgh, 1890. Highest Award.

CARBOLIC POWDER: Pink, White, or Grey

Any Strength. Packets, Tins, and in Bulk.

CARBOLIC ACIDS: CRUDE, 95/97% PALE, and 97/99% WATER WHITE.

SANITARY FLUID or CREOSOL:

Bottles, Drums, and Casks.

IMMEDIATELY SOLUBLE IN COLD WATER.

Gold Medal, Jamaica, 1891. Highest Award

"PINEOTAS" DISINFECTANTS.

"PINEOTAS" POWDER, FLUIDS, AND OIL.

SPECIALLY SUITABLE FOR INDIA & THE EAST.

CONCENTRATED FLUID SHEEP DIP

CARBOLIC AND "PINEOTAS" SOAPS, PETROLEUM JELLY, CHLORIDE OF LIME, &c.

WORKS & WHARF: THE CAUSEWAY, WANDSWORTH, S.W.

Agency—116 PRINCESS STREET, MANCHESTER. AGENTS WANTED.

JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than **CREOLIN**, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

PRICE LIST

(ABBREVIATED).

Jeyes' Fluid.

Retail Prices s.	d.		Trade Prices s.	d.	
0	6	Sixpenny Bottles (bottles included)	4	0	per doz.
1	0	Shilling " " "	7	0	"
3	6	½-gall. Iron Drums (drums included)	2	6	each
6	0	1-gall. Drums " "	4	6	"
11	6	2-gall. " " "	8	6	"
28	6	5-gall. " " "	20	0	"
55	0	10-gall. " " "	38	6	"
Per gall.					
5	0	20 & 40 gallon Casks (casks free, not returnable)	3	6	per gall.
1	1½	UNIVERSAL PERFECT PURIFIER (in bottles)	8	6	per doz.

Sanitary Powder.

1	0	each Canisters, in boxes of 1, 2, or 3 doz.	7	0	per doz.
0	6	" " " "	4	0	"

(Also in Casks and Bags.)

Disinfectant (Brown) Soap or Household (White) Soap.

No. 1 QUALITY.—In 1-lb. Bars, papered.

In 1-cwt. Boxes .. .. 31 0 per cwt.

(Also in Small Packages.)

No. 2 QUALITY.

In 1-cwt. Boxes .. .. 25 0 per cwt.

(Also in Small Packages.)

In 3-lb. Bars, 2s. per cwt. less.

Triple Milled Toilet Soaps.

Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of "Jeyes' Fluid."

Retail Prices Per box s.	d.		Trade Prices s.	d.	
1	6	"Perfect Purifier," 6 Tablets	12	0	per doz.
1	6	"Coal Tar," 6 Tablets	12	0	"
2	0	"Old Brown Windsor," 12 square Tablets	18	0	"
0	6	"Special Line," 3 Tablets	4	6	"
2	6	"Toilet" (Scented), 6 Tablets	21	0	"
2	6	"Sublime Toilet" (Unscented), 6 Tablets	21	0	"
2	0	"Boudoir Tablets" (Perfumed), 3 Tablets	16	0	"
5	0	"Transparent Complexion," 12 Tablets	36	0	"
1	0	"Transparent Soap," 3 Tablets	8	0	"
2	0	"Senalia" 4 Tablets	18	0	"

N.B.—The first three varieties supplied also in 7-lb. deal Boxes. Customers' Names stamped on Tablets if sufficient quantity ordered.

Toilet Preparations.

Each s.	d.				
1	0	Shaving Stick, in Cardboard Box	8	0	per doz.
6	0	Tooth Powder, in 1-lb. Bottles	48	0	"
1	0	" " " Metal Box	7	0	"
0	6	Tooth Soap	4	0	"
2	0	Dentifrice Water, in Bottles, with Sprinkler	15	0	"
1	0	Lano-creolin, 5 % Antiseptic, in Tubes	9	0	"
3	0	" " " Large Tubes	24	0	"
6	0	" " " 1-lb. Jars	48	0	"
1	6	Antiseptic Ointment, 10% Antiseptic, in China Pot	12	0	"
0	9	" " 20% Antiseptic, in Metal Box	6	0	"
3	6	Spray Diffuser, in Box complete	30	0	"

Sheep Dip, Wood Preserver, and other Agricultural Preparations.

TERMS, 2½ PER CENT. DISCOUNT AT ONE MONTH.

All Goods delivered Free in London. For the Country, Free at any London Railway Station or Wharf.

FULL PRICE LIST ON APPLICATION.

ALSO

A NEW MEDICAL PAMPHLET,

With Recent Opinions of English Medical Men, free on request.

"Indispensable" Automatic Toilet Boxes, filled with Toilet Paper Sanitised with Jeyes' Fluid.

Retail		Trade.
3s. 6d.	Polished Walnut Wood Boxes	32/- per doz.
1s. 6d.	Embossed Board Boxes	14/- "
6d.	Cardboard Boxes	4/6 per doz.
6d.	The Antiseptic Toilet Paper (Refills)	4/6 "

JEYES' SANITARY COMPOUNDS CO., LTD., 43 CANNON ST., LONDON, E.C.

FLETCHER'S GOVERNMENT CONTRACTORS.

CARBOLIC ACID (pale 97 per cent. or crude) in 5, 10, 20, or 40 gallon lots. Carriage paid. Packages free.

CARBOLIC POWDERS from 5 per cent. to 25 per cent.

DISINFECTING FLUID (soluble), as used by Town and District Councils, Hospitals, &c. Highly recommended by Dr. W. Collingridge and other eminent authorities. Supplied in bottles, tins, drums, and casks.

SHEEP DIPS (fluid, powder, paste). Acknowledged to be the finest ever offered. Packed or in Bulk.

SPECIAL TERMS TO LARGE BUYERS.

English and Foreign Agents Wanted.

FLETCHER BROS. & CO., GRIMSBY.

WHOLESALE & EXPORT orders for

MASON'S

PERFUMED SOLUTION OF

CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS UPON APPLICATION.

"We entertain a very favourable opinion of the preparation, and are able to recommend it."—*British Medical Journal.*

"An efficient disinfectant and antiseptic, very convenient to use both for surgical and ordinary purposes."—*The Lancet.*

"I have never seen healing take place so rapidly as under its influence."
GEORGE HASTINGS, M.D.

"ESSETS" FLUID.

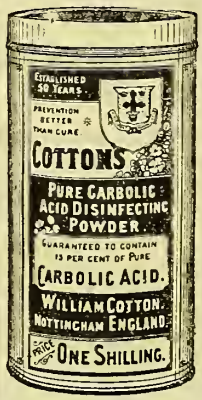
"A PERFECT DISINFECTANT."

"ESSETS" DISINFECTING POWDER

Contains all the valuable disinfecting properties of the Fluid.

Please note Change of Agency, and address all communications to

A. GRANVILLE & CO., 102 High St., **BATTERSEA,**
LONDON, S.W.



COTTON'S

PURE CARBOLIC ACID

DISINFECTING POWDER

A most certain and Powerful Disinfectant, excelling all others in Purity, Strength, and Efficiency.

Used by the Principal Hospitals and Sanitary Authorities.

1/- Tins, 15 per cent. Pure Carbolic Acid, 4/6 per doz. 3 dozen and upwards Carriage paid; case free. Sample Tin 12 stamps, with Analytical Report.

Special quotation for 2 cwt. and upwards.

AGENTS WANTED.

Wm. COTTON, WEEKDAY CROSS, **NOTTINGHAM**

PERFECTLY PURE. WRITE FOR OUR PRICES BEFORE ORDERING.

S 0/56 V 0/60 R

TINCTURE SPIRIT

60 O.P. AT LOWEST PRICES. 56 O.P.

PURE ORANGE WINE.

S 0/61 V 0/64 M

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS **"GLENALLAN"** PURE MALT WHISKY.
7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz. **42/-** Per doz.

JAMES BURROUGH

S.V.R. 65 O.P. 60 O.P.

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.
Quotations for S.V.R. Methylated Spirit and Finish on application.
FINEST ORANGE WINE FOR QUININE.

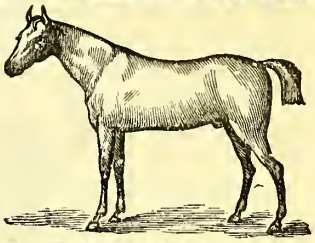
A VALUABLE AGENCY!!!

BIRD'S BOTANIC ESSENCE

(REGISTERED TRADE MARK).

THE CERTAIN CURE

For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.



As used in the Stables of the Royal Families, Nobility, the leading Trainers, and largest Horse Owners throughout the World for over 60 years.

Obtains a large sale (and affords a handsome profit) wherever introduced. May be procured of all Wholesale Houses, or direct from Sole Proprietors—

BIRD & STOREY, 42 Castle Street East, Oxford Street, **LONDON, W.**

FLUID & Disinfectants POWDER

NON-POISONOUS.

ONCE USED ALWAYS USED.

UNEQUALLED FOR DOMESTIC USE.

"ODAMINE"

USED IN CASTLE, HALL, AND COTTAGE, HOSPITAL, WORKHOUSE AND FARM.

Manufactured by ODAMS' MANURE & CHEMICAL CO. (LIM.), 116 Fenchurch Street, LONDON, E.C.

DAY, SON & HEWITT.

LARGEST MAKERS IN THE WORLD OF

HORSE & CATTLE MEDICINES.

THE CHEMICAL EXTRACT.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.

Prices complete, 18s. and 34s.

PILLS & LOTIONS FOR ALL DOG AILMENTS.

Price 1s. 6d. per bottle or box.

Descriptive Catalogue of each preparation on application.

For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking Feverish Symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of Milk Fever.

Price (Cows), 13s. per dozen box; (Ewes), 3s. 6d. per doz. 3 doz. box, 10s.

Liberal Discounts to Foreign Buyers.

Trade Terms and Full Particulars on application.

Attractive Showcards and Handbills sent with each order.

THE GASEOUS FLUID.

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhœa in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1s. 9d. per bot. 20s. per doz.

FOR HORSES, CATTLE, & SHEEP.

Prices:

£6 6s., £2 16s. 6d., & £1 8s. 9d.

ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

"An Embrocation that acts like Magic."

WALKER'S

"SEMOTINE"

For Rheumatism, Sciatica, Lumbago, Pains in the Back and Joints, Stiffness, &c., &c.

BEING EXTENSIVELY ADVERTISED.

Of all Chemists, Drug Stores, &c., everywhere, 1/1½, 2/9, 4/6;
Wholesale Prices: 8/6, 20/6, 34/-

SOLE AGENTS—
F. NEWBERY & SONS, King Edward St., LONDON.

OIL OF
EUCALYPTUS
GLOBULUS
"PLATYPUS BRAND"

TASMANIAN EUCALYPTUS OIL CO.

138 LEADENHALL STREET, LONDON, E.C., and HOBART, TASMANIA.

CHEAPEST. WITH COVERED SPRING LINING.

PARCEL POST BOXES

4 oz. 8/6, 6 oz. 9/6. 8 oz. 10/-, 10 oz. 10/6, 12 oz. 11/6, 16 oz. 15/- per gross.

MOST PERFECT. SPECIALLY ADAPTED FOR BOTTLES.

THE "EUREKA" SERIES OF FOLDING BOXES FOR BOTTLES, &c.
4 oz. 3/-, 6 oz. 3/6, 8 oz. 4-, 10 oz. 4/6, 12 oz. 5/-, 16 oz. 6/- per gross plain.
Of superior appearance, for fixing Chemists' own labels on. Supplied folded or flat, or made up firm, open at one end. Also supplied printed in Gold Blue, &c. Quotations on receipt of particulars. Above in stock, forwarded same day, F.O.R., on receipt of cash.

C. C. KIRTLEY, Printer and Card Board Box Manufacturer, 3 Elswick Court, NEWCASTLE-ON-TYNE.

MEDICAL CIGARETTES.

Made up from Stramonium, Cubeb, Cannabis Indica, Eucalyptus, Mullein, &c., &c.
TERMS AND PRICES ON APPLICATION TO
J. HILL, 14 ALDGATE AVENUE, LONDON, E.C.
CUSTOMERS' OWN INGREDIENTS MADE UP IN BEST STYLE.
As J. HILL has for many years been the Maker of these Special Cigarettes he undertakes to turn out the Best Make and Style. WHOLESALE AND EXPORT ONLY.

THE MANCHESTER COLLEGE OF PHARMACY,

225A & 227A OXFORD STREET, MANCHESTER.

DIRECTOR:

Mr. CHARLES TURNER, F.C.S., Pharmaceutical Chemist.

The next Term will begin on AUGUST 19th,

When fresh Courses will commence in all the Classes. Each Class is distinct from all the others and complete in itself. In each the subjects under consideration are **thoroughly** taught and fully illustrated in the Laboratories and Lecture Room as required.

There is also a Short Course for **Advanced Students** for the October Examinations, beginning on the same date.

Full particulars sent on application.

NORTHERN COLLEGE OF PHARMACY,

100 BURLINGTON STREET, MANCHESTER.

Principal—Mr. GEO. CLAYTON, PH.C., F.C.S.
Assisted by Mr. F. LAWSON, PH.C.

The next full Course will begin on August 28th for the January Examinations. Gentlemen who intend to join this Course are requested to communicate with Mr. CLAYTON.

Prospectus, with full particulars, will be posted on application to the PRINCIPAL.

METROPOLITAN COLLEGE OF PHARMACY.

Principal **W. WATSON WILL, F.C.S.**

WINTER SESSION.

The Winter Course of Lectures for the January Examinations commence on 2nd September and terminate on 31st December. Intending Students are advised to enter at the beginning of a course, so as to admit of a complete course of work. All Student's work carefully supervised by the Principal and Demonstrators.

Fees—Major Course, 6 Guineas. Minor Course, 10 Guineas.
These Fees charged are absolutely inclusive. No petty or extra charges.

AUTUMN TUTORIAL COURSE.

A Special Tutorial Course will commence on 2nd September and terminate at the October Examination. This Course is intended for Students who have previously attended a complete Course of Lectures for either examination. Particulars on application.

EVENING CLASSES.

These Classes will be resumed on 2nd September. Major Course from 2nd September to 15th January. Minor Course from 2nd September to 31st December. Special Prospectuses for these Classes. Recent passes, Majors 5, Minors 20.

For New Prospectuses and Full Particulars, apply to

W. S. CARVER, Secretary, 162 Kennington Park Road, **LONDON, S.E.**

Sixteenth Edition, much Enlarged. Price 12s. 6d.

SQUIRE'S COMPANION TO THE BRITISH PHARMACOPŒIA.

London: J. & A. CHURCHILL, 11 New Burlington Street, W.

NOW READY, SECOND EDITION, CROWN 8VO, PRICE 5s.

A PRACTICAL MANUAL OF

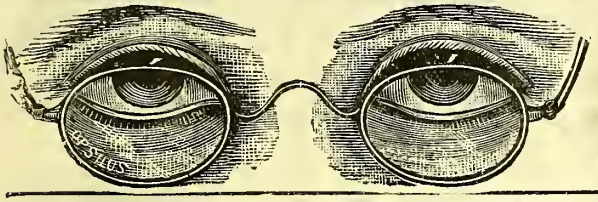
VENEREAL & GENERATIVE DISEASES;

Including SPERMATORRHŒA, PROSTATORRHŒA, IMPOTENCE, and STERILITY in both Sexes.

By M. K. HARGREAVES, M.D.
Assistant Physician to St. John's Hospital for Diseases of the Skin.

LONDON: R. KIMPTON, 128 WARDOUR STREET, LONDON, W.C.

Telephone—35447. Telegrams—"ASTIGMATIC."



J. RAPHAEL & CO.

Holders of the largest stock of Spectacles and Folders in every recognised material.

ODD ORDERS AND PRESCRIPTIONS BY RETURN.

13 OXFORD STREET, LONDON, W.

☞ Correspondence cordially invited, and every information most willingly given to assist Chemists who desire to build up this lucrative adjunct.

JUST PUBLISHED. EIGHTH EDITION. Pages i.-xxviii., 1-584. PRICE 9s.

THE EXTRA PHARMACOPŒIA.

By W. MARTINDALE, F.C.S., and W. WYNN WESTCOTT, M.B., LOND.

Revised to date, with many additions, including Notices on the Revision of the British Pharmacopœia, the Additions to the French and German Pharmacopœias, and the use of Antitoxins and Animal Extracts.

LONDON: H. K. LEWIS, 136 GOWER STREET, W.C.

THE NEW PERMANENT

ENGRAVED WINDOW TABLETS,

PRIZE MEDAL, International Health Exhibition, 1884.

IN RUBY, BLUE, AMBER, AND OPAL GLASS.

AWARD OF MERIT, International Sanitary Exhibition, 1881.

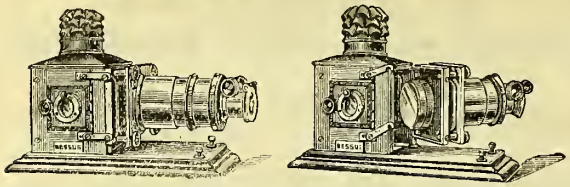
Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8 × 6 Ruby Tablets, £3 15s. 0d.

J. R. CORSAN, THE LONDON SAND-BLAST WORKS, **58A GRAY'S INN ROAD, W.C.**

TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.

BESSUS Single Lantern.



Designed and Manufactured for Work; a thoroughly reliable instrument—well made and well finished.

Fitted with Bessus Flame to give access to the interior from the front, 4 in. diam. plano convex and meniscus condenser, and double combination achromatic objective lenses, 2-in. diam., mounted in Rack Front.

Price £6 5s.

BESSUS Film Holder.

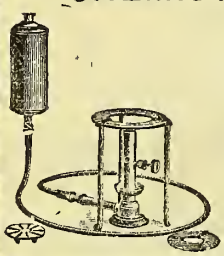
To hold rollable Films flat and firm during Development and Finishing.

AIRS & CO., 152 Farringdon Rd., LONDON, W.C.

O. BEREND & CO.,

DUNEDIN HOUSE, ALDERMANBURY, LONDON, E.C.

CHEMISTS' BUNSEN BURNERS.



For Methyl. Spirit. No. 15½.

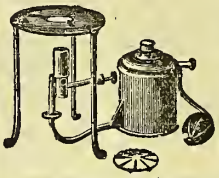
A Perfect Substitute for Gas.

More Portable, more Economical than Gas.

Invaluable where there is no Gas, or where Gas cannot be used.

THE MOST PERFECT BUNSEN BURNERS.

No Wick. Simple. Indestructible. Absolutely Safe.



For Benzoline. No. 16.

BEREND'S Rapid-Starting (PATENT) SYPHONS.

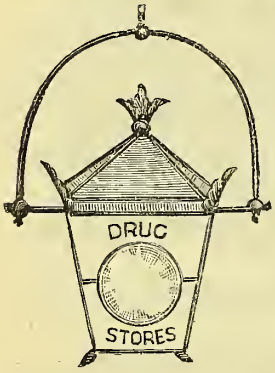
One stroke of the Piston sets the Syphon going instantaneously.

A VERITABLE BOON WHEREVER LIQUIDS ARE HANDLED.

Made of Tinned Iron, Copper, Copper Tinned, Glass, Ebonite, &c., and in any size.

LAMPS FOR CHEMISTS

At Manufacturers' Lowest Prices.

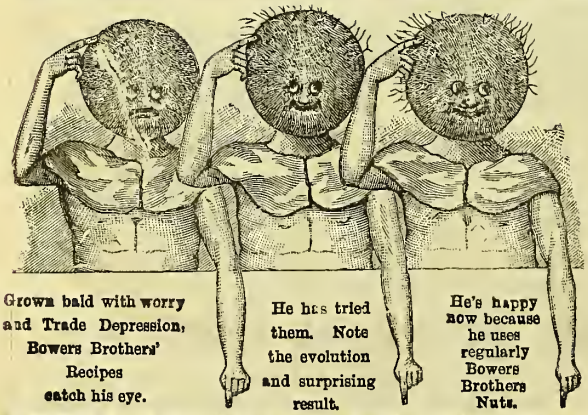


ENGRAVED WINDOW TABLETS

In Opal and Coloured Glass.

A Sample Tablet, 13 by 10 ins., framed complete, with any wording, carriage paid, 4/6.

CASPAR & CO., LIM., 76, 77, & 78 HIGH HOLBORN, LONDON.



Grown bald with worry and Trade Depression, Bowers Brothers' Recipes catch his eye.

He has tried them. Note the evolution and surprising result.

He's happy now because he uses regularly Bowers Brothers Nuts.

BOWERS BROTHERS, The Chemists' Attractive Princes 89 BLACKFRIARS ROAD, S.E.

14

LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

Contains 80 beds, and, being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences.

G. A. CROSS, *Secretary-Superintendent*

RHINODYNE

THE CURE FOR **HAY FEVER.**

Retails 2/6.

AGENTS: BARCLAY, SUTTON, EDWARDS, NEWBERY, SANGER.

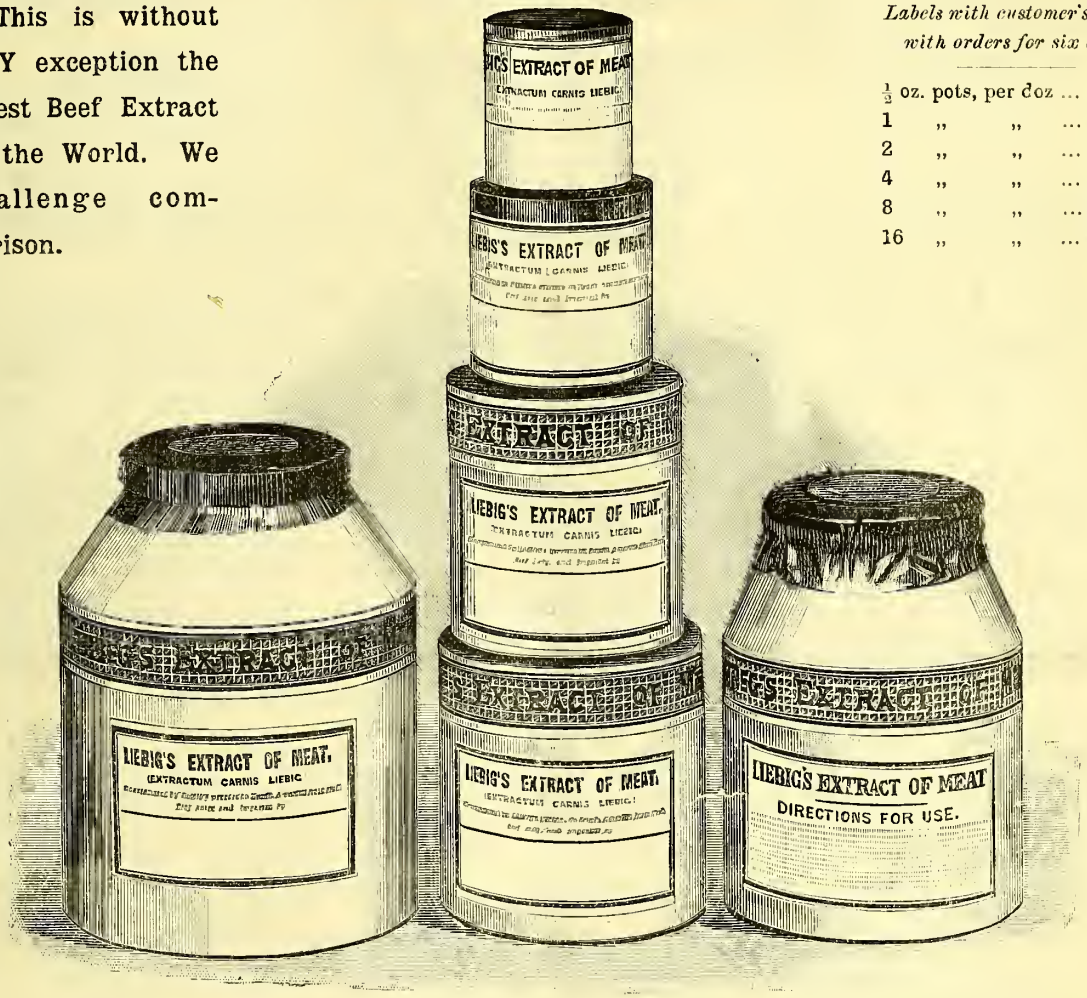
EXTRACTUM CARNIS LIEBIG'S

(Pure Beef Extract).

This is without ANY exception the finest Beef Extract in the World. We challenge comparison.

Labels with customer's name with orders for six doz.

½ oz. pots, per doz	...	3/-
1 " "	...	4/6
2 " "	...	8/-
4 " "	...	14/6
8 " "	...	26/-
16 " "	...	48/-

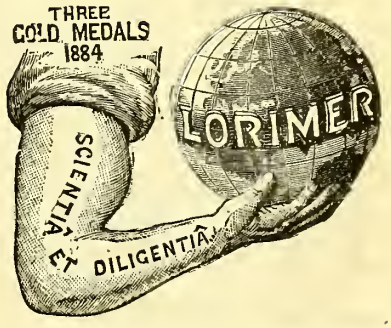


We guarantee the purity and genuineness of every ounce of Beef Extract we sell. We are careful to buy and import South American Extract only, prepared from prime Ox Beef, and of uniformly good quality.

LORIMER & CO.

Britannia Row,

LONDON, N.



Telephone No. 7524.

Telegraphic Address:— "CALISAYIN LONDON."

EXCHANGE COLUMN.

FOR DISPOSAL.

Dental.

Ash's Morrison operating-chair, crimson plush, nearly new; cost 18*l.*; price 13*l.*; portable nitrous-oxide gas apparatus, 2*l.*; 6 gallon gasometer and fittings; 12 pairs tooth-forceps. Lodge, Dentist, Rotherham.

Drugs and Chemicals.

One Wm. qt. finest essence bergamot; what offers? 13 27, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

What offers? One 100-oz. tin quin. sulph., B.P., and also 30 4-oz. bottles Howards' quin. sulph. H. R., 38 Callcott Road, Brondesbury, N.W.

Eight 30-lb. coppers ess. limonis, select; 2 10-lb. coppers extra superfine ess. limon.; what offers? Houston, New Whittington, Chesterfield.

Educational.

Cooley's "Cyclopædia," new, uncut, 8 parts, cost 5*l.* a part; offers (cash only)? 101 Stanley Road, Liverpool.

For sale, three good and cheap students' microscopes; second-hand. Hinton & Co., 38 Bedford Street, Strand, W.C.

Microscope, by Baker, 1 in., ¼, and ⅛ in. objectives, first-class condition; price 3*l.* 15*s.* Burge, Woronzow Terrace, St. John's Wood.

Becker's balance, in case, and set gramme weights, 30*s.*; Newton's student's achromatic microscope (fig. 277), with ⅛th objective, as new, 5*l.* Brown, Chemist, Dover.

Proprietary Articles.

One gross Adam's extract of herbs, 6*d.* size, to clear at 2*s.* 3*d.* per dozen, taking the lot. Ince, 218 High Street, Dudley.

Shop Fittings.

Three large show-bottles on inscribed blocks, a ½-gallon tincture-press, and counter fountain aërating-machine, all as new, for sale; a bargain; in one lot or separately. W. Field, 30 Spenser Road, Herne Hill, London.

Mahogany stand for corner, with marble slab, 20*s.*; sponge-case, marble top, 80*s.*; mahogany desk, 6 drawers under, 20*s.*; 4 3-gall. upright show-bottles, cut stoppers, 4*s.* each; 2 large specie-jars, gold caps and labels, 8*s.* each; 1 1-gall. glass percolator, 15*s.* Walton, Chemist, Hull.

Miscellaneous.

Maw's 5-grain pill machine (36), 12*s.*; one (24) 9*s.*; perfect condition. Halford, Chemist Hockley, Birmingham.

A quite new 2-gallon copper still, with block-tin worm and tub complete; cost 5*l.*; price 30*s.* Hinton & Co., 38 Bedford Street, Strand, W.C.

Mellin's capsuling machine, cost 50*s.*, 26*s.*; Orme's 2-gal. still, cost 2*l.* 16*s.* 6*d.*, 30*s.*; Burroughs's drug-mill, 3A, cost 35*s.*, 19*s.*; all good condition, carriage forward; 5,000 1*d.* fly-papers, not spread, original design Alf. Cooke, Leeds, cost 4*l.* 5*s.*, 2*l.* 13 28, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

For sale, "Merritt" type-writer, in perfect order, 45*s.*, delivered; gas-stove for counter, as Maw's No. 2, 5*s.*; Simpson, Fawcett's barsinette, cloth padded and with hood, cost 5*l.*, good as new, 2*l.* 10*s.* Hankinson, Grange-over-Sands.

WANTED.

Large Wedgwood mortar and pestle. 15 34, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Swift's Specific, Cuticura, and other American patents; state quantity and price. F. Trinder, 27 Kennet Road, Paddington, W.

Dispensing and counter scales, good condition; also suppository-mould and small set of dental forceps; state price. Barley's Stores, Aldeburgh, Suffolk.

Addresses Wanted.

The present address of Mrs. and Miss Loney, late of Starcross and South Brent. If any chemist could kindly oblige, to Rowe, Chemist, Starcross.

The address of Mrs. Searles, invalid, widow lady of independent means; travels about; was at Chislehurst in the summer of 1894. Would anybody give the present address to W. Aplin, Chemist, Chislehurst?

The address of Mr. W. Panllett, gentleman of independent means, who was at Brighton the winter of 1894, and previously at Chislehurst; was a member of St. Stephen's Club, Westminster; travels about. Will anybody forward the present address to W. Aplin, Chemist, Chislehurst?

EASTMAN'S

SOLIO PAPER.

The typical and standard printing-out paper of the day. Prints made upon it are distinguished by their delicacy, richness of detail, and beauty of finish.

Unrivalled for excellence of quality and ease of manipulation. Gives clear whites, exquisite tone, and high gloss; will neither curl, frill, nor blister; incomparable for ease and rapidity of working. Great depth and variety of tone.

In white, pink, mauve, and pensé—the last specially recommended for export.

MATTE SOLIO PAPER.

Possesses all the excellent qualities and characteristics which distinguish glossy Solio, and is printed, fixed, and toned in exactly the same manner.

The tones are exceedingly delicate, ranging from warm sepia to soft black.

Great richness of detail, softness, and fidelity of gradation are obtained.

BROMIDE PAPERS.

For enlarging, or for printing by contact from negatives. Unequalled for perfection of coating, delicacy of gradation, clearness and depth of shadows, and uniformity.

"PERMANENT." Specially suitable for printing by contact from soft and delicate negatives, and for enlarging by daylight.

"EXTRA RAPID" Specially suitable for printing by contact from hard and dense negatives, and for enlarging by artificial light.

The papers are coated in three grades, and are known as "A" Thin, Smooth. "B" Thick, Smooth. "C" Thick, Rough.

PLATINO BROMIDE PAPER.

An argentic Bromide paper, which gives the effects of Platinotype, and is at the same time far easier to work. It is distinguished by the soft grey and rich velvet and Platinotype tones, with the perfect matte surface of the finished print on both the rough and smooth paper.

Platino Bromide paper can be used for making either enlargements or contact prints. The method of treatment is the same as that employed with Eastman's other Bromide papers.

NIKKO PAPER.

For enlarging, or for printing by contact from negatives.

Combines the soft effect of a platinum or bromide tone with a highly enamelled surface. It has a delicate pink tint, and is especially recommended for those who prefer a warmer tone than that of the ordinary bromide print.

Contact prints or enlargements on this paper have a superior gloss; they possess bright, clear high lights, beautiful half-tones and deep rich shadows, and are transparent without blackness.

No other paper gives such perfect results with so little retouching.

EASTMAN Photographic Materials Co. Limited,
115-117 Oxford Street, LONDON, W.

PARIS: 4 Place Vendôme.

ROCHESTER, N.Y., U.S.A.
Eastman Kodak Co.

THE SPECIAL ATTENTION OF CHEMISTS

IS DRAWN TO THE FOLLOWING:—

LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

GIBSON'S VOCAL LOZENGE

"TOP NOTE PRODUCERS."

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. **Sold in 1/1½ and 2/9 Boxes.**

CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver-top Screw-stoppered Bottles.

VOICE AND THROAT LOZENGES,

FOR SINGERS AND PUBLIC SPEAKERS.

DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retailed at One Penny each.

Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

Put up in 3-doz., 6-doz., and 1-gross Tins. [1]

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom.

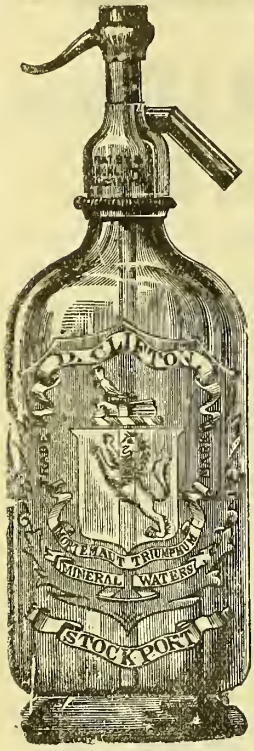
Price Lists sent on application to

ROBERT GIBSON & SONS, CARLTON WORKS, MANCHESTER.

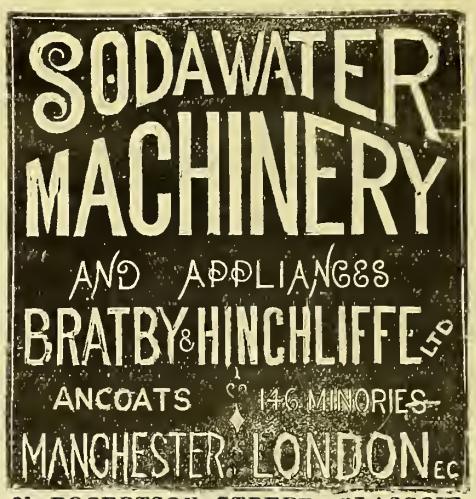
AND

NO. 1 GLASSHOUSE YARD, ALDERSGATE STREET, LONDON.

SYPHONS & SELTZOGENES



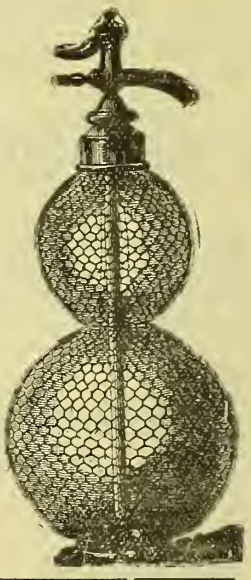
Messrs. J. BARBE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.



81 ROBERTSON STREET, GLASGOW.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



PRICES.

SYPHONS — 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

ESTABLISHED 50 YEARS.

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

EUGENE GERAUT & CO.'S

LATEST

NEW PATENT SELTZOGENE.

PATENT No. 18,305.

The Best Seltzogene Extant and Warranted.

In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at top, and making perfectly air tight the Apparatus.

Wear and Working Guaranteed.
No more Screwing required.
Tap cannot get Corroded.

GREAT REDUCTION IN PRICE.

3-Pint Patent Wire,	11/-	..	Cane, 12/2
5-pint " "	14/9	..	" 16/3
8-pint " "	22/6	..	" 25/6

Large Discounts allowed off for quantities.

POWDERS FOR ABOVE.

3-pint—1 doz. boxes containing 12 charges,			16/-
5-pint " " "			24/-
8-pint " " "			40/-

Liberal Discount allowed off for quantities.

This Patent can be fitted to any Seltzogene if required.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—**139 & 141 FARRINGDON ROAD, LONDON, E.C.**

Seltzogenes and Gazogenes Repaired.

To be had of S. MAW, SON & THOMPSON.

18

JAMES BOULTON & CO., LIM.

CHEMICAL MANUFACTURERS,

CRAYFORD MILLS, STRATFORD, LONDON.

Manufacturers of the Finest Steam-made

GRANULAR EFFERVESCENT PREPARATIONS.

ACETIC ACID. ACETATE POTASSIUM.

SPIRIT AND VINEGAR COLOURING.

GLYCERINE FRUIT ESSENCES, &c.

Sole Proprietors and Manufacturers of

THE NEW PRESERVATIVE:

SEMPER-DULCIS OR EVER-SWEET,

For Milk, Cream, Butter, Sausages, &c., &c.

FINEST BUTTER-COLOUR (Buttercup Brand)

SEND FOR QUOTATIONS

For CLEANING PLATE!

BRADLEY & BOURDAS'S

ALBATUM or WHITE ROUGE,

For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

6 PONT ST., BELGRAVE SQ. & 48 BELGRAVE RD., LONDON, S.W.

BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS ACTION

SODA-WATER MACHINE.

For use with the Liquified Carbonic Acid Gas.

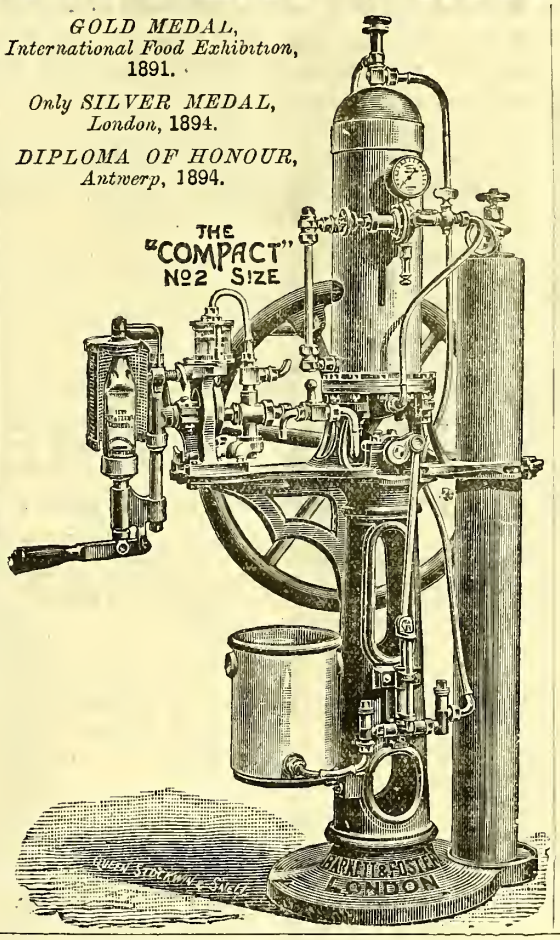
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER.
NO MESS.
PERFECTLY RELIABLE.

GOLD MEDAL, International Food Exhibition, 1891.

Only SILVER MEDAL, London, 1894.

DIPLOMA OF HONOUR, Antwerp, 1894.



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

In use by Leading Chemists in all parts of the United Kingdom.

TWO FILLERS INCLUDED.

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**
Producing Capacity by Hand-power 600 dozen per day.
" " Power 1,200 " "

No. 2 Size, complete with Turnover and Syphon-filling Machine Code word (*Royalist*) **£48**
Producing Capacity by Hand-power 350 dozen per day.
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... ... Code word (*Retailer*) **£33**
Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

SOLE INVENTORS AND MANUFACTURERS OF THE

"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON

KNOWN ALL OVER THE WORLD.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

NIAGARA WORKS, 26T EAGLE WHARF ROAD, LONDON, N.

IMPORTANT NOTICE.

THE

CARLSBAD MINERALWASSER VERSENDUNG

Beg to draw the attention of the Medical Profession and the Trade to the fact that the **Natural Salts of Carlsbad Mineral Water** are now also prepared in the form of *Powder* ("Pulverförmig"), which contains *all the constituents* of the *Sprüdel* Spring, the water of which is largely prescribed in cases of **Chronic Gastric Catarrh, Hyperæmia of the Liver, Gall-stones, Chronic Constipation, Diabetes, Renal Calculi, Gout,** and **Diseases of the Spleen, &c.**

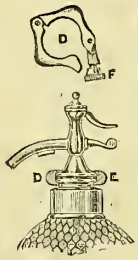
The *Powder* has the great advantage in not being affected by change of temperature or exposure to the atmosphere, and therefore in this form is the most reliable—especially for Export.

A SAMPLE of the SALT in POWDER FREE to Members of the Medical Profession or Chemists on application to the Sole Importers for the United Kingdom and the Colonies—

INGRAM & ROYLE, LIMITED,

52 FARRINGDON ST., LONDON, E.C.

AND 19 SOUTH JOHN STREET, LIVERPOOL.



THE NEW PATENT "CLINCHER"

Is the latest thing in Seltzogenes.

Every Chemist should see this New Invention before ordering any more Ordinary Screw Taps.

NO SCREWS TO CORRODE OR GET JAMMED. EASY, RAPID, AND EFFECTIVE IN USE.

SYPHONS & SELTZOGENES.

SYPHONS

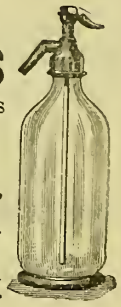
EIGHT HIGHEST AWARDS

SUPERIOR QUALITY.

ENGLISH MAKE.

HEADS: Of Guaranteed Metal, Plain Burnished, Nickelled or Silver-plated.

VASES: Of Extra Strength, Finest Crystal and Colours; ornamentally Engraved; 18 to 50 oz. Capacity.



THE "MAJOLICA" SYPHON, Porcelain-lined Head, is specially adapted for a Chemist's trade. See *Lancet* Report.

LOWEST PRICES consistent with First Quality and Workmanship, on application to

THE BRITISH SYPHON M'F'G. CO., 2 Gresham Buildings, Guildhall, LONDON, E.C.

ORANGE QUININE WINE.

When made with **Dowden's Seville Orange Wine** (detannated), this article no longer gives either trouble or unsatisfactory results. The Quinine should be added in the usual way, in any convenient closed vessel, and allowed to settle a few days, when the wine will be found **Brilliant** without filtration, and will so remain permanently after bottling. See opinion of Editor of The Chemist and Druggist in Winter Issue, page 150.

Ask for Samples and state quantity to quote for.

DOWDEN'S ORANGE WINE.

DOWDEN & CO., Limited, ST. PAUL'S DISTILLERY, **BOURNEMOUTH.**

IDRIS

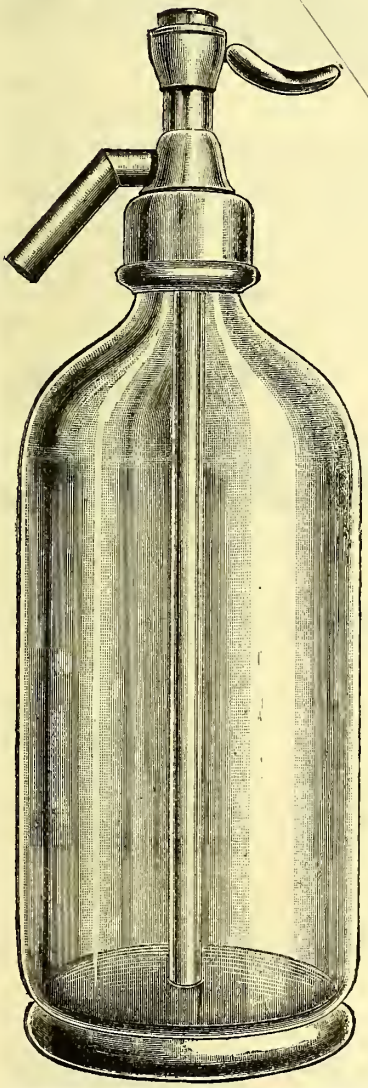
IDRIS ROYAL TABLE WATERS ARE SUPPLIED BY SPECIAL WARRANT TO THE QUEEN.

EIGHT GOLD MEDALS AT RECENT EXHIBITIONS.

ROYAL

All Chemists who wish to do a large trade in Mineral Waters are advised to stock these well-known Waters, which are in constant demand by the Public, and sell better than any others.

No Firm or Association can offer such facilities to Chemists to do a large trade.



TABLE

Medical Men strongly recommend Idris Table Waters. Chemists who have sold these Waters for many years still find their business increasing.

Sample Case sent Free to any Chemist. Attractive Circulars with Chemist's name.

HANDSOME SHOW CARDS.

WATERS

Elegantly - designed Tablets for shop windows and doors specially prepared to suit the requirements of each customer supplied free.

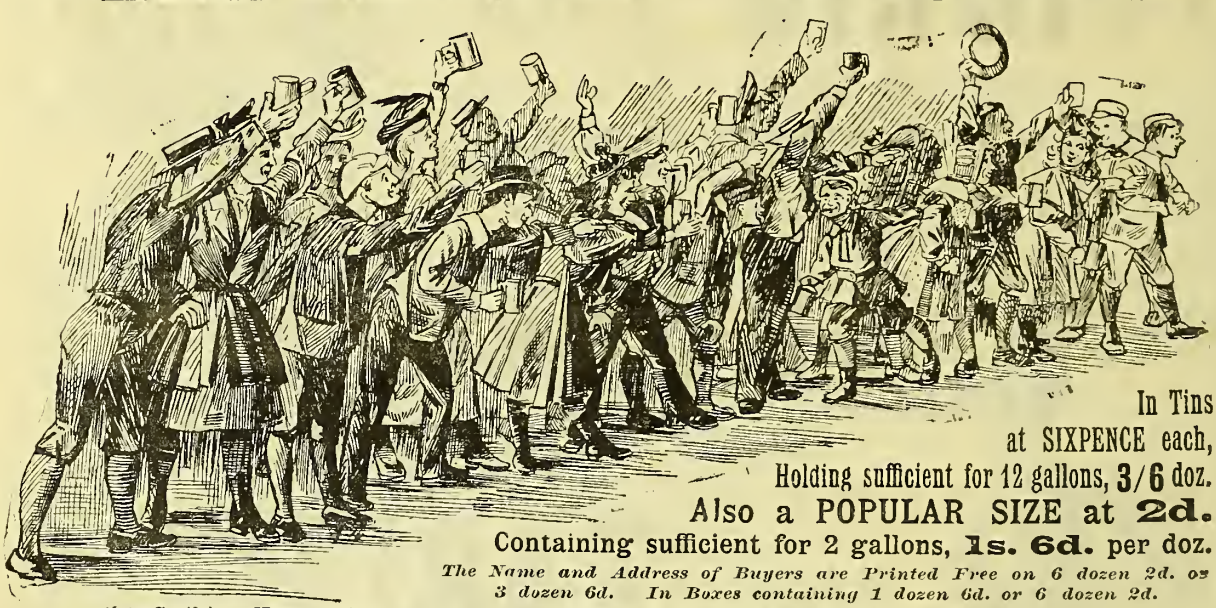
Chemists are invited to inspect Idris & Co.'s Factory.

IDRIS & CO., LIMITED,

CAMDEN TOWN, LONDON, N.W.; & COLEMAN STREET, SOUTHAMPTON.

THE COMING DRINK!

HERB BEER EXTRACT IN POWDER.



In Tins
at SIXPENCE each,
Holding sufficient for 12 gallons, **3/6** doz.
Also a POPULAR SIZE at **2d.**
Containing sufficient for 2 gallons, **1s. 6d.** per doz.

The Name and Address of Buyers are Printed Free on 6 dozen 2d. or 3 dozen 6d. In Boxes containing 1 dozen 6d. or 6 dozen 2d.

"A Striking Novelty."—*B. & C. D.* "Perfect Distribution of the Oily Materials."—*C. & D.*

The 2*d.* Tin is a New Size, and should command a Large Sale. 6 dozen 2*d.* Tins or 3 dozen 6*d.* post free for 9*s.* or 10*s.* 6*d.*, bearing Customer's own Name and Address. In Counter Boxes, with Pictorial Illustration. Demy 16mo. Circulars for Retail use, 2*s.* per 1,000.

SOUTHALL BROS. & BARCLAY, BIRMINGHAM.

VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

COCA LIQUEUR

The best Restorative is
ROLLAND'S COCA LIQUEUR.
The best Nerve Tonic is
ROLLAND'S COCA LIQUEUR.
The best Renewer of Health is
ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

Sole Proprietors of

THE PARISIAN VAPORISER & EAU DE LIS.

Price 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET, LONDON, W.

Hall's Coca Wine

WINDOW SHOW

COMPETITION.

First Prize - - - - -	£20.
Second ,, - - - - -	£10.
Third ,, - - - - -	£5.
Forty Prizes - -	£2 2s. each.

The Proprietors are offering the above Prizes for the most effective show of HALL'S COCA WINE.

CONDITIONS WILL BE FORWARDED ON APPLICATION.

STEPHEN SMITH & CO.

BOW, LONDON, E.

SILVER MEDAL, EDINBURGH, 1890.
GOLD MEDAL, JAMAICA, 1891.
GOLD MEDAL, DERBY, 1891.

COLEMAN'S

WINCARNIS

OR

LIEBIG'S
EXTRACT OF MEAT & MALT WINE

Is a delicious beverage and tonic made from Port Wine, Liebig's Extract of Meat, and Extract of Malt.

WINCARNIS

Is a New Name Registered to prevent fraudulent imitations.

OVER TWO THOUSAND

Unsolicited Testimonials have been received from Medical Men.

IMPORTANT UNSOLICITED TESTIMONIAL FROM

T. POYNTZ WRIGHT, Esq., Medical Officer of Health New Street, St. Neots.

New Street, St. Neots, January 28th, 1894.

I have much pleasure in giving you my experience as to the "Meat and Malt Wine" received from you some time since, and in bearing testimony as to its value as a recuperative and restorative agent.

In the early part of last year my wife was seriously unwell, suffering from loss of flesh and appetite, together with mental and bodily exhaustion and sleeplessness. She was under treatment for a considerable time without relief, and I at last determined to try "Wincarnis."

The effect was marked, and convalescence commenced from that date; the appetite returned and the weight hourly increased, and in about two months the health was restored, and this result was in a great measure attributable to the use of "Wincarnis"—of this I feel certain, that in many cases this preparation is a most valuable adjunct to medicinal treatment.

T. POYNTZ WRIGHT,
Medical Officer of Health, St. Neots.

WINCARNIS

Is sold by all Druggists, Wine Merchants, and Patent-medicine Vendors. Ask for **Coleman's "Wincarnis,"** or **Liebig's Extract of Meat and Malt Wine,** and see that the word **"Wincarnis"** is on the shoulder of the bottle.

Sold in Bottles, 2*s.* 9*d.* and 4*s.* 6*d.*, everywhere.
If there is any difficulty in getting the Wine, write direct to the manufacturers, who will forward
Sample Pint Bottle free by Post on receipt of 33 stamps.
" Doz. " Rail " 30*s.*

SOLE MANUFACTURERS:

COLEMAN & CO., LIMITED,

ST. GEORGE'S AND BANK PLAIN, NORWICH;
AND 3 NEW LONDON STREET, LONDON, E.C.

Sole Proprietors of "Ozmazon," the New Beef Tea, Coleman's Crown Imperial Invalid Stout, and also Coleman's Crown Imperial Invalid Champagne, which is strongly recommended by the Medical Faculty.

24

EIGHT PRIZE MEDALS AWARDED

GOODALL'S
HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6*d.*, 1*s.*, & 2*s.* each.

GOODALL'S BAKING POWDER.

The Best in the World. 1*d.* packets; 6*d.*, 1*s.*, 2*s.*, and 5*s.* Tins.

GOODALL'S EGG POWDER.

One 6*d.* Tin is equal to 25 Eggs. In 1*d.* packets; 6*d.*, 1*s.*, and 5*s.* Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2*d.*, 6*d.*, & 1*s.* each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6*d.* and 1*s.* each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6*d.*, 1*s.*, and 2*s.* each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3*d.* and 6*d.*

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6*d.* and 1*s.* Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1*s.*, 2*s.*, and 5*s.* each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6*d.*, 1*s.*, and 2*s.*

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3*d.*, 6*d.*, and 1*s.* each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

PATENT MEDICINES AND DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

CHAMPION'S VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

ESTABLISHED OVER 200 YEARS.

NEEDS NO GUARANTEE.

A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

THE MAWSON FILTERS.

(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Tichborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

SOLD BY ALL WHOLESALE DEALERS.

PRINCE ALBERT'S CACHOUX

HIGHEST AWARD COLUMBIAN EXPOSITION, CHICAGO, 1893.

These Cachoux are supplied only in Brass Boxes, of which there are three sizes.

No. 4's at 3/6 doz. (*Export*).
No. 5's at 4/- doz. (*Home Trade*).
No. 6's at 7/- doz.

SUBJECT TO TRADE DISCOUNTS.

All Labels, Titles, and Trade Marks registered in Europe and America.

"BENZINE RECT." JACKSON'S.

SIXPENNY & SHILLING SIZES, 4s. and 8s. per dozen.

A Genuine Benzol.

JACKSON'S CEMENT Chinese Diamond.

It has stood the test of time in all quarters of the globe.

In Bottles at 3/6 and 7/- per dozen.

ADHESIVE, TENACIOUS, AND KEEPS WELL.

JACKSON'S LIQUID GLUE.

SIXPENNY and SHILLING Sizes, at 3/6 and 7/- per doz.

BRUSHES INCLUDED. (B)

SPECIALITIES FROM THE LABORATORY OF THOMAS JACKSON, Strangeways, MANCHESTER.

25

UNBREAKABLE PULP WARE

ROUND BASINS.

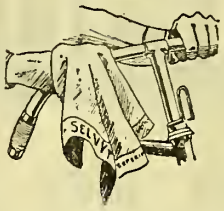
10 inches	per doz.	8/-
12 "	"	8/6
13 "	"	9/-
15 "	"	14/-
Extra Deep.		
11 "	"	9/6
13 "	"	13/-
OVAL TUBS.		
16 "	"	21/-
ROUND BATH TUBS.		
18 "	"	30/-

SPITTOONS.

7½ inches, with Tops, per doz.	10/6
Extra large, 9 inches, for Public Institutions. Without Tops, per doz.	15/-
With " "	18/-

Write for full Illustrated List of 50 other articles in this Ware.

REGD. TRADE MARK "SELVYT"



SUPERIOR TO CHAMOIS LEATHERS.

"SELVYT" will polish everything, is of great durability, is most economical and convenient, always handy to have in a sideboard drawer, will outlast any wash-leather, will be as good as new when washed, is soft and pliant, and very pleasant in the hands, will never get greasy.

	A	B	C	D	E
Sizes in inches ..	10½×10½	14×14	17½×14	21×17½	21×20
Net price per doz.	2/9	3/11	5/3	7/11	9/6

BROOKES SOAP

MONKEY BRAND.

Original Cases of 100 Large Bars, 25/-

Original Boxes of

WON'T WASH CLOTHES.

Original Cases of 60 Large Bars, 15/-

48 Half Bars, 6/3

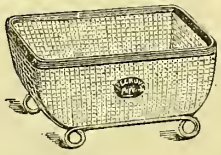
If any difficulty in obtaining in any part of the World, write Sole London Consignees—FORDHAMS, LONDON, N.

THE PINNACLE Soap Stand

Being made of best rubber, it is almost indestructible, and will last for years. It is made in three shapes, to fit any soap dish, or can be used on lavatory slab or bath without dish.

Each in a box, oblong, round, or oval, retailed 9d. each. Price 6/- per doz.

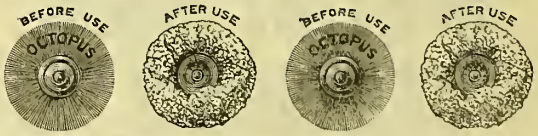
SANITARY SINK BASKETS.



Stand in corner of Kitchen Sink.
Will keep Waste Pipe always clean.

			Enamelled (White) on Iron.	Tioned on Iron.	Enamelled (Brown) on Copper.
TRIANGULAR.					
No. 1.	9 inches	per doz.	12/-	13/4	18/-
" 2.	10½ "	"	16/-	17/4	22/-
" 3.	12 "	"	20/-	21/4	26/-
OBLONG.					
No. 1.	10 inches	per doz.	12/-	13/4	18/-
" 2.	12 "	"	16/-	17/4	22/-
" 3.	13½ "	"	20/-	21/4	26/-
" 4.	14½ "	"	20/-	22/6	28/-

OCTOPUS ANTI-INCRUSTATORS.



Collect the Fur in Kettles, Kitchen Boilers, and Pipes.

Purifies and Softens the water. Prevents Boiler Leakage and Explosion.

Nos.	Size.	Ins.	Doz.
0	Small Kettle..	4	12/-
1	Ordinary Kettle	4½	20/-
1½	Small Boiler	5½	28/-
2	Ordinary Boiler	6½	40/-
3	Medium Boiler	8	60/-

W. B. FORDHAM & SONS, LTD., 36 to 40 York Rd., KING'S CROSS, LONDON, N.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS

INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

	Foot of Page
Acme Chemical Co. (Lim.)	49
Advertising Balloon Co.	52
Airs & Co.	14
Allen & Hanburys	Cover
Allen, Stafford, & Sons	58
Anderson & Co.	63
Anglo-American Drug Co. (Lim.)	36
Apollinaris Co.	Cover
Armour & Co.	31
Assistants Wanted and Wanting Situations	Coloured Supplement
Baker, J. W.	62
Barclay & Sons (Lim.)	57
Barnett & Foster	19
Barrett, R. H.	51
Bennett & Jenner	62
Berdoe & Co.	Coloured Supplement
Berend, O.	14
Betts & Co.	30
Bird & Storey	11
Boehm, F.	53
Boehringer & Sohne	40
Boord & Son	10
Boulton, J., & Co. (Lim.)	18
Bowdlear & Co.	53
Bowers Bros	14
Bowley & Sons	47
Bleasdale & Co.	7
Bradley & Bourdas	18
Bratby & Hinchliffe (Lim.)	18
Brecknell, Turner & Co.	59
Brett, F. J.	Coloured Supplement
British Paper Co.	30
British Syphon Co.	20
Bronnley, H., & Co.	55
Browne, T. B.	Text 896
Buchan, D. D.	8
Burgoyne, Burbidges & Co.	42
Burrough, J.	10
Burroughs, Wellcome & Co.	33, 34
Burrow, W. & J.	18
Businesses for Disposal	Col. Supp.
Cadbury Bros.	Cover
Caspar & Co. (Lim.)	14
Champion & Co.	25
Christy, T., & Co.	62
Cocking, J. T.	46
Coleman & Co. (Lim.)	24
Corsan, J. R.	13
Cosmosine Co.	62
Cotton, W.	10
Crawshaw, E., & Co.	55
Critchley, T.	55
Crocker & Co.	Coloured Supplement
Day, Son & Hewitt	11
Day & Co.	46
Dee Oil Co. (Lim.)	54
Denoual, J.	41
De St. Dalmas, A. E., & Co.	48
Dodge & Olcott	37
Dowden & Co.	20
Eastman's Photographic Materials Co. (Lim.)	16
Edwards & Co.	60
Elliman, Sons, & Co.	Text 896
Eschmann Bros. & Walsh	48
Exchange Column	16
Fellows' Hypophosphites	32
Fantiman, A. J.	62
Ferguson & Osborne	Col. Supp.
Ferratin	40
Ferris & Co.	39
Fink, F., & Co.	62
Fletcher Bros. & Co.	10
Fletcher, Fletcher & Co.	Text 896
Fordham & Sons (Lim.)	26
French Hygienic Society	22
Gardner, W.	53
Geraut, E., & Co.	18
Gibson, R., & Sons	17
Gilbertson & Sons	50
Glass-lined Syphon Co. (Lim.)	4
Glendenning, W., & Sons	63
Glover, C. H., & Co.	52
Goodall, Backhouse & Co.	24
Granville & Co.	10
Hargreaves, Dr.	13
Harker, Stagg & Morgan	45
Hearn, Wright, & Co.	50
Hearon, Squire & Francis	34
Hewlett, C. J., & Son	38
Hill, J.	12
Hooper, B., & Co.	43
Hora Co.	Text 896
Hubbuck & Son (Lim.)	38
Hughes, E. G.	63
Idris & Co. (Lim.)	21
Ingram & Royle	20
Isaacs & Co.	51
"Izal"	8
Jacks, T.	55
Jackson, T.	25
Jeyes' Sanitary Co. (Lim.)	9
Josephs, P.	4
Kahnemann & Krause	46
Kay Bros. (Lim.)	44
Keene & Ashwell	63
Kent, G. B., & Sons	59
Kirtley, J. C.	12
Krohne & Sesemann	49
Lake, Millar & Co.	62
Lambert & Co.	49
Leath & Ross	3
Leo & Co.	45
Levermore, Aug., & Co.	62
Lewis, W. K.	15
Liquor Carnis Co.	41
Liverpool Lint Co.	47
Lofoden Cod Liver Oil Co.	47
Lofthouse & Saltmer	41
London Homœopathic Hospital	14
Lorimer & Co.	15
McKay, W.	63
Mackey, Mackey & Co.	38
Manchester School	13
Marriott, E., & Co.	48
Marshall, E.	6
Martindale, W.	47
Mason, C. E.	10
Mawson Filter Co.	25
May & Baker (Lim.)	Cover
May, Roberts & Co.	Cover
Melin, C.	50
Metropolitan School	13
Millar, A., & Co.	25
Möller, P.	Text 896
Morris & Callard	39
Moss, J., & Co.	Text 896
Mulhens, F.	57
Ness & Co.	62
Nestlé, H.	64
Newbery, F., & Sons	48
Newsome, C.	63
Nicholls, G. W.	62
Northern School	15
Odam's Chemical Co. (Lim.)	11
Pears, A. & F. (Lim.)	35
Pears, K.	14
Pearse & Meeking	30
Pfister, F.	53
Phillips & Co.	10
Pocock Bros.	29
Queich, H. O.	49
Raimes & Co.	43
Raimes, Clark & Co.	39
Ransom, W., & Son	59
Raphael & Co.	13
Remus, T.	52
Roberts & Co.	36
Robbins & Co.	41
"Rypona"	63
Sanitas, The, Co. (Lim.)	Text 896
Saunders Bros.	62
Schutze & Co.	46
Seabury & Johnson	65
Singleton & Cole (Lim.)	62
Smith, J. H.	7
Smith, S., & Co. (Lim.)	23
Smith, T. & H.	40
Southall, Bros., & Barclay	22
Sozio & Andrioli	57
Squire, P. W.	13
Staudard Malt Co.	44
Stipendum Stopper Co.	52
Strong, C.	7
Symes & Co. (Lim.)	44
Tasmanian Eucalyptus Co.	12
Thiellay, E. H.	62
Thornton-Pickard Co.	62
Tidman & Son (Lim.)	51
Todd, A. M.	56
Tomlinson, T., & Son	Col. Supplement
Tomlinson & Hayward	Text 896
Trade Mark Society	Text 896
Treble, G., & Son	4
Tunbridge & Wright	5
Turner & Co.	51
Typke & Kiog	4
Tyrer, T., & Co.	40
Uuited Alkali Co. (Lim.)	59
Vaccine Association	45
Velutina	61
Walker's Semotine	12
Wandsworth Chemical Co.	8
Warren, A. & J.	62
Washington Chemical Co.	55
Watson & Wates	63
White, A., & Sons	48
Wilcox, W. H., & Co.	53
Wilson, A.	54
Wood, V.	48

CLASSIFIED LIST OF ALL ADVERTISERS

ACETIC ACID
Lorenz, H.
Morris & Callard (Salts)

ACIDS
Boulton J., & Co., Lim.

ADVERTISING SPECIALITIES
Corsan, J. R. | Harris, J.

AERTD & MINRLS
Anderson & Co. (Lisburn)
Apollinaris Co.
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aërated Waters Association, Lim.
Ellis & Son (Buthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourns)

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
Bratby and Hinchliffe, Lim.
Bylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
Australian Drug Co.
Boissy
Kempthorns, Prosser & Co.
Lsnnon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Taylor & Colledge

AIR-TIGHT COVR
Day & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

APPARATUS
Bennett, Sons & Shears
Bersnd, O., & Co.
Christy, T., & Co.
Deroy Fils Ains
Rogers, P.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Domen Belt Co.
Hatrick & Co., Lim. ("Shoot")
Robinson & Sons
Schutze, F., & Co.
Wood, Vincent

BATH & FLESH GLOVES
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Solport Bros. | Wood, Vincent

BATH SALTS
Cosmosine
Landor, Anderson & Co.
Tidman & Son, Lim.

BEESWAX
Bowdlear & Co.
Evans, Sons & Co.
Kemp & Son

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BIPALATINOIDS
Oppenheimer, Son & Co.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. [Tyrer, T., & Co.
White, Alfred, & Sons

BOTTLES
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnsen & Jörgensen
Kilner Bros.
Lofoden Cod Livsr Oil Co.
Maw, S., Son & Thompson
Poths, H., & Co.
Bylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Taylor, F. H., & Co.
Tidman & Son, Lim.
Toogood, W. | Youldon, E.
Turner, P., & Co., Lim.

BOOKS
Hargreavss, Dr.. M.D.
Heinsmann. | Möller, W. P.
Martindale's Extra Pharmacopœia
Squire's "Companion"

BORAX
Howards & Sons

BOXES
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G.B., & Son | Kilner Bros.
Kirtley, G. C. (Cardboard)
Patent Stopper, Box, and Stamping Co. (Lim.) (Tin)
Remus, T. (Cardboard)
Robinson & Sons
Bylands Dan. Lim.

BRUSHES
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Baker, J. W.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Tomlinson & Hayward

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co
Jackson, T.
Raimes & Co. | Warrick Bros.

CAMPHOR
Howards & Sons
May & Baker, Lim.

CAPSULES
Denoual, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim. (Dun's)
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Parke, Davis & Co. [Co., Lim.
Patent Stopper Box and Stamp
Richardson, John, & Co. (Leicester), Lim
Warrick Bros. | Wylsys, Lim.

CARBOLIC ACID
Mason, C. E., & Co.
Stevenson, H. E., & Co. [Lim.
Wandsworth Chemical Works,

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Parke, Davis & Co.

CERESINE WAX
Boehm, Fredk. | Pfister, F.

CHALK, PRECIP.
Levermore, Aug., & Co.
Nicholls, G. W.

CHECK TILLS
Stokes, G. B., & Co., Lim.

CHEMICALS
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Graf, F.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treachsr &
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorenz, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Oppenheimer, Son & Co.
Smith, T. & H., & Co.
Stevenson, H. E., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M

CHEST PROTCTRS
Ayrton & Saunders
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Schutze & Co. | Solport Bros
Wood, Vincent

CINCHONA BARK
Graf, F.

CIGARETTES
Hill, J. (Medical)

CHLOR. OF LIME
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co

COCAINE-HYDRO.
Howards & Sons

COCA WINE
Armbrecht, Nelson & Co.
Lorimer & Co.
Stephen Smith & Co. (Hall's)

COD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Kemp & Son
Linton, Hubbard & Co.
Lofoden Cod Liver Oil Co
Lorimer & Co.
Möller, P. | Moss, J., & Co
Oppenheimer, Son & Co., Lim.
Richardson, J., & Co., Lim.
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes)
Scott's Emulsion
Stevenson, H. E., & Co.
Terrol Co. (substituts)
Woolley, Sons & Co.
Wright, Layman & Umney

COLAPSEL TUBES
Betts & Co.

COMBS
Hovenden & Sons

COMP. MEDICINS
Allsn & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcoms & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Richardson, J., & Co., Lim.

CONCENT. LIQRS.
Baiss Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co
Richardson, J., & Co., Lim.

CORKS
Johnson & Co.

CORN CURES
Gardner. C.
Solport Bros.

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Barclay & Son, Lim.
Mumford, G. S.

DENTIFRICES, &c.
Beecham, T.
Bronnley, H., & Co.
Fentiman & Co.
Hovenden & Sons
Jewsbury & Brown
Lutheni & Co.
Stevens, P. A.
Sutton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

DIPHTHERIA REMEDY
Jacques & Co.

DISINFECTANTS
Barclay & Sons, Lim.
Beedzler & Co. | Brooks, T.
Cotton, W.
Drysdale, J. W., & Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Granville & Co.
Hebden, W. C.
Jeyes' Sanitary Compounds Co.
Lake, Millar & Co.
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co. Lim.
Wandsworth Chemical Works,

DOG MEDICINES
Spratt's Patent, Lim.

DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale & Co., Lim.
Chemists' Association, Lim.
Coles Pneumatic Vaccination Shield Co., Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hatrick & Co., Lim.
Hockin, Wilson, & Co.
Hovenden & Sons
Howard, J., & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Palmer & Co., Lim.
Quelch, H. C.
"Rhinodyne" Hay Fever Cure
"Rypona"
Sanger & Sons | Schutze & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent

DRUGS
Allen, S., & Sons (Grinders)
Bleasdale & Co., Lim.
Graf, F.
Hopf, R. | Morrison, R., & Co.
Oppenheimer Son & Co.
Phillips & Co. [(Grinders)
Richardson, J., & Co., Lim.
Saunders Bros.
Stevenson, H. E., & Co.

DYES, &c.
Crawshaw & Co.
Hatrick & Co., Ld., 'Diamond'

EAU DE COLOGNE
Farina, J. M.
Hockin, Wilson & Co.
Muhlens, F.
Van Oppen & Co.

ECZEMA
Cullwick's Skin Ointment
Cullwick's Blood Tablets

EMBROCATION
Day & Sons
Elliman, Sons & Co.
Harvey & Co.
"Rypona"
Walker's "Semotins"

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Hatrick & Co., Lim. ("Rack")
Sanger & Son | Wood, Vincent

ENGRAVERS
Corsan, J. R.

ESSENCES
Boulton, J. & Co., Lim.
Bovril, Lim. (Beef)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Idris & Co. Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies
Tyrer, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co.
Jakson, J., & Co.
May & Baker, Lim.
Ransom, Wm., & Sons
Rylands, Dan, Lim.
Sanitas Co., Lim.
Sozio & Andrioli
Spurway & Co.
Stevenson, H. E., & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.
Treatt, R. C. | Warrick Bros.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS
Bush, W. J., & Co.

EXTRACT MEAT
Armour & Co. | Brand & Co.
Liebig Co.
Liquor Carnis Co.

EXTRCTS, FLUID
Allen & Hanburys
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Hovenden & Sons
Kilner Bros.
Marriott, E. & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros. | Youldon, E.

FILTERS
Fordham, W. B., & Sons, Lim.
Mawson Filter Co.

FLESH GLOVES
Solport Bros.

FLY PAPERS
Bleasdale, Lim.
Buchan, D. D.
Ford, Shapland & Co.
Marshall, E.
May, Roberts & Co.
Silverlock, H. | Strong, Christy
Smith, J. H.
Tidman & Sons
Tunbridge & Wright

FOOD (Infants' & Invalids')
Allen & Hanburys
Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.
Evans, Sons & Co
First Swiss Milk Co., Lim.
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liquor Carnis Co.
Liebig Co. | Lorimer & Co
Mellin's Food | Nestlé, H.
Tyrer, P.

FULLERS' EARTH
Barclay & Sons, Lim.
Fullers' Earth Mining Co., Lim.

GELATINES
Boehm, F.

GINGER ALE
Bratby & Hinchliffe, Lim.
Chemists' Aerated & Mineral Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.
Ross & Sons, Lim.

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Boulton, J., & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)
Graf, F.

HAIR PREP.
Bates, F. W.
Chesebrough Co.
Edwards & Co.
Trueffitt, H. P., Lim.

HERB BEER EXTS.
Newball & Mason
Pegg, J. A.
Potter & Clarke

HOMŒOPATHIC
Keene & Ashwell
Leath & Ross
Watson & Wates

HYPOPHOSPH'THS
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcome & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Martindale, W.
Toogood, W.

INK
Bewley & Draper, Lim.

INSECTICIDES
Barclay & Sons, Lim.
Hockin, Wilson & Co.
Jackson, T. (Bellows)
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

JELLOIDS
Warrick Bros.

KETCHUP
Tyrer, P.

KOLA
Christy & Co.
Moss, John, & Co

LAMPS
Caspar & Co.

LARD
Ewen, J., & Sons

LIME JUICE
Evans, Sons & Co.
Lorimer & Co.

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Lugge & Co.
Evans, Sons & Co. (Savarini)
"Solazzi"

LIQUORS
Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
"Solazzi"
Warrick Bros.

MACHINERY
Bennett, Sons & Shears Lim.
Gardner, W.
Hockin, Wilson & Co.
Mellin, C. | Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

MALTEXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co. (Kepler's)
Glendenning, W., & Sons (Wine)
Hearon, Squire & Francis
Lofoden Cod Liver Oil Co.
Lorimer & Co. | Moss, J., & Co.
Morrison R., & Co.
Oppenheimer, Sons & Co., Lim.
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co. Leicester), Lim
Robinson & Co.

MANICURE
Hovenden & Sons

MARKING INKS
Bond (Daughter of the late John) (Ink & Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.
Warren, A. & J.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.

OILS
Bowley, S., & Son
Hooper, B., & Co. (Sandal Wood)

OINTMNT BASES &c.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.
Rypona
Stevenson, H. E., & Co.

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Raphael, J. & Co.

OTTO OF ROSE
Warrick Bros.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.
Stevenson, H. E., & Co.

PALATINOIDS
Oppenheimer, Son & Co.

PASTILLES
Jackson, T.

PAT. MEDCNS, &c.
Anglo-American Drug Co. Lim. [Preserv.)
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Chemists' Association, Lim.
Clarke's Blood Mixture
Cullwick's Skin Ointment
Cullwick's Blood Tablets
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
"Hermanine"
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Powell, T.
Roberts & Co.
Warner, H. H., & Co., Lim.
Wilkinson & Co.
Wilson, A. (Bunter's Nervins)

PEPPERMINT OIL
Bush, W. J., & Co.
Jakson, J., & Co.
Ransom, W., & Son
Stevenson & Howell

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (solid)
Burgoyne, Burbidges & Co
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons | Farina, J. M.
Hovendea & Sons
Kemp & Son
Lanoline | Mulhens, F.
Lynn, J. H., & Co.
Newbery, F., & Sons (Berdoes
Pears, A. & F., Lim.
Price's Patent Candle Co
Sharp Bros. Soap & Perfumery Co., Lim.
Sozio & Andrioli
Tidman & Son | Treatt, R. C.
Trueffitt, H. P., Lim.
Van Oppen & Co.
Warrick Bros.
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder
Wright, Layman & Umney

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Newbery, F., & Sons (Ingluvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.
Warner & Co. (Ingluvin)

PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co. | Tyrer, T., & Co.
Sanitas Co., Lim.

PETROLEUM
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Hatrick & Co., Lim. ("Lucilline")
Snowdon, Sons, & Co. (Jelly)

PHARM. PREPS.
Allen & Hanburys
Antitoxine | Armour & Co.
Baiss Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles Schacht & Co.
Hearon, Squire & Franci
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Lactophenin
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Potter & Clarke
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co.
Smith, T. & H., & Co.
Squire & Sons
Stevenson, H. E., & Co.
Symes & Co. | Tyrer, T. & Co.
Terrol Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Zimmermann, A. & M.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer

PORCELAIN GDS
Toogood (E.c. Pots, regist.)

PHOTOGRAPHIC
Airs & Co. | Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Eastman Photo Materials Co.
Evans, Sons & Co. [Lim.
Fordham, W. B., & Sons, Lim.
Howards & Sons (Chemicals.
Kombi Camera
Raphael, J., & Co.
Ross & Co.
Thomas, R. W., & Co., Lim.
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmermann & Co.

PILLS, Coated, &c.
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Cox, Arthur H., & Co. (tasteless)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son | Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Rackham & Co.
Richardson, J., & Co., Lim.
Walker, D. P.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyleys, Lim.

PLASTERS
Blyton, Astley & Co
De St. Dalmas, A.
Evans, Sons & Co.
Johnson & Johnson, Lim.
Mather, W. Lim.
Seabury & Johnson
Solport Bros. (Court)

POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Miller & Co.
"Velutina"

POULTRY FOOD
Spratt's Patent, Lim.

PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waine
Silverlock, H. | Townsend

QUININE SALTS
Boehringer, C. F., & Sohne
Hockin, Wilson & Co. (Wine)
Howards & Sons
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

RENNET
Duncan, Flockhart & Co.
Tomlinson & Hayward
Warren, A. & J. (Vells)

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Zimmermann, A. & M.

SARSAPARILLA
Wilkinson's

SAUCES, PICKLES
Goodall, Backhouse & Co.
McKay, W.
Tyrer, P.

SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Liverpool School
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
Newcastle School
Northern College of Pharmacy
North of England School
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College

SCIENTIFIC INSTRUMENTS
Darton & Co.

SEEDS
Potter & Clarke

SHIDLITZ PWDRS
Blyton, Astley & Co.
Hockin, Wilson & Co.
Hora &Co.| May, Roberts&Co.

SELTZOGENES
Brathy & Hinchliffe, Lim.
British Syphon Manufacturing Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
May, Roberts & Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)
Truefitt, H. P., Lim.

SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes'SanitaryCompoundsCo.
Lorimer & Co. | Muhlens, F.
Pears, A. & F., Lim.
Sanitas Co., Lim.
Sharp Bros. Soap, &c., Co., Ld.
Sinclair, J., & Son
Tidman & Son
United Alkali Co., Lim.
Wright, Layman & Umney
Yardley & Co.

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Josephs P. | Treble, G., & Son
Yates, W. S.

SHEEP DIP
Fletcher, Bros. & Co.
Jeyes'SanitaryCompoundsCo.
Ness & Co.
Odorma' Chemical Co., Lim.
Quibell Bros.
Sanitas Co., Lim.
Tomlinson & Hayward, Lim.

SPECTACLES
Botwright & Cary
Darton, F., & Co.
Raphael, J., & Co.

SPONGES
Cresswell Bros. & Schmitz
Evans, Sons & Co.
Marks, Henry, & Sons (Lim.)
Peterson, M., & Co.

STAMPS(RUBBER)
Hickisson, J.

STARCH
Barclay & Sons, Lim.
Critchley (Gloss)
Redford & Son (Gloss)

STOPPERS
Austin & Co (Sprinklers)
Barnett & Foster
Melin,C. | Orchard,E. (Poison)
Patent Stopper, Box, and Stamping Co. (Lim.)
Stipendum Stopper Co., Lim.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burbidges & Co.
Cocking, J. T.
Ellwood Lee, J., Co.
Eschmann Bros. & Walsh
Ferris & Co. | Harris, J.
Hatrick & Co., Lim.
Haywood, J. H.
Kahnemann & Krauss
Krohne & Sesemann
Lambert, A., & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Thompson
Oppenheimer, Son & Co.
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co., Lim.
Robinson & Sons
Sanitas Co., Lim.
Schutze, F., & Co.
Victoria Rubber Co.
Wood, Vincent

STOVES
Clark, S., & Co., Lim.

SUGAR OF MILK
Boehm, Fredk.

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon Co.
Chemists' Aerated & Mineral Waters Association, Lim.
Fordham, W. B., & Sons, Lim.
Glass-Lined Syphon Co., Lim.
Idris & Co., Lim.
Kilner Bros. | Melin, C.
Rylands, Dan, Lim.

SYRUPS
Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Idris & Co., Lim. (Liquors)
Stevenson & Howell

TABLETS
Blyton, Astley & Co. (Sulphur)
Caspar & Co., Lim.
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim. (Compressed)

TEA
Burroughs, Wellcome & Co. (Tabloids)
Digeua Tea Co.
Great Tower St. Tea Co., Lim.
Pearse & Meeking

TEETHING PADS
Marriott, E., & Co.

THERMOMETERS
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.
Raphael, J., & Co.

TINCTURES
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOBACCO & CIGRS
Lusby's Tobacco Co.
Singleton & Cole (Lim.)

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Lathem & Co.
Maw, S., Son & Thompson
Sutton, O., & Co.
Truefitt, H. P., Lim.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TOILET
Aspinall, E.
Allen & Hanburys (Chrisma)
Ayrton & Saunders
Bates, F. W. | British Paper Co
Burroughs, Wellcome & Co.
"Cosmosine" (Lanoline)
Dee Oil Co., Lim.
Hockin, Wilson & Co.
Hovenden & Sons
Maw, S., Son & Thompson
Quelch, H. C.
Sanitas Co., Lim. [Co., Lim.
Sharp Bros. Soap & Perfumery
Truefitt, H. P., Lim.

TOOTH PREPS.
Hermanine

TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.

URETHRANE
Howards & Sons
Vaccine Association (Lymph).

VACCINATION
Vaccine Association (Lymph).

VASELINE
Chesebrough Co.

VETERINARY
Bird & Storey | Day & Son
Day, Son & Hewitt
Elliman, Sons & Co.
James, W. H. (Blisters)
Jeyes'SanitaryCompoundsCo
Kemp & Son
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Sanitas Co., Lim.
Spratt's (Dogs)
Walker, Troke & Co.
Wilson, S. (Pig Powders)

VALUERS & TRNSFR AGNTS
Berdoe & Co | Brett, F. J.
Crocker, G. B., & Co.
Fergusson & Osborne
Orridge & Co.
Tomlinson, Thos. & Son

VINEGAR
Champion & Co., Lim.
Grimble & Co.

VINOLIA Superf'tt'd
Blondeau & Cie.

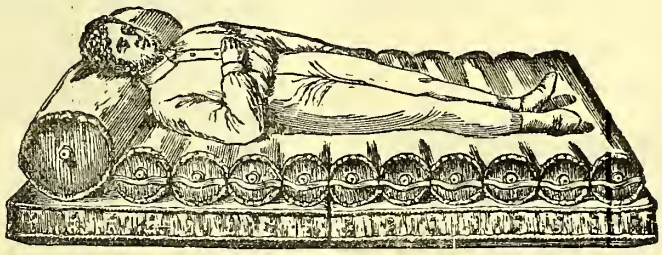
WEED KILLER
Acme Chemical Co., Lim.

WHOLSLE & EXPT DRUGGISTS
Allen & Hanburys
Allen, S., & Son | Baiss Bros.
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Fassett & Johnson
Ferris & Co.
Goodall, Backhouse & Co.
Graf, F.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm. & Son
Lloyd, T. Howard, & Co
Lofthouse & Saitmer
Macfarlan, J. F., & Co.
Mackay, Mackay & Co.
Potter & Clarke
Raimes & Co.
Raimes, Clark & Co.
Richardson, J., & Co., Lim.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Symes & Co.
Taylor & Colledge
Walker, Troke & Co.
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS
Armbrecht, Nelson&Co. (Coca)
Burroughs, J.
Coleman & Co., Lim.
Dowden & Co., Lim.
Durrant & Co.
French Hygienic Socy. (Coca)
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hirst, Brooke & Hirst, Lim.
Lorimer & Co.
Millar, A., & Co. (Oranges)
Phillips, G., &Co. | Robinson, B.
Smith, S., & Co. (Orange)
Warren, A, & J.
Wright, Layman & Umney

THE UNIVERSAL INVALID TUBULAR WATER & AIR BED

PRIZE MEDAL, Sanitary Congress, 1878; CERTIFICATE OF HONOUR, ditto, 1879; YORK EXHIBITION, 1879, PRIZE MEDAL; Camborne Exhibition, 1878, CERTIFICATE OF HONOUR; International Medical and Sanitary Congress, 1881, HIGHEST AWARD; Brighton Sanitary Congress, 1881, SILVER MEDAL GOLD MEDAL, Health Exhibition, 1884.



POCOCK BROTHERS,

Patentees and Sole Manufacturers, 235 SOUTHWARK BRIDGE ROAD, LONDON.

Consists of a series of separate and distinct Cylinders, any diameter and suitable length, made of Waterproof material either for Water or Air, fitting into a case which keeps them side by side, but slightly apart.

Its advantages over ordinary Water or Air Beds are as follows:—

1. In cost it is less expensive.
2. It is quickly filled and easily adjusted.
3. It is warm and light, and well adapted for a camp or field-bed, being waterproof.
4. It admits of ventilation in the space between the tubes.
5. It can be regulated so as to relieve pressure from any part required.
6. By the addition of tubes it will raise one part of the body higher than the rest.
7. By the temporary removal of one or two tubes it affords room for the introduction of a bed-pan.
8. It can be inclined to any angle (even when filled with water) to suit the condition of the patient.
9. It is free from noise and surging, so disagreeable to the invalid on changing his position in a water-bed.
10. In case of injury to a tube it can be withdrawn, and a fresh one substituted at a trifling cost, and without loss of time; whereas the ordinary water-bed if injured in any part (from being in one compartment) is rendered useless.
11. In the treatment of invalids, especially the insane who are paralysed, and have no control over their evacuations, they cannot lie in a pool of wet, the fluid passing away between the tubes.

BETTS & CO., LIMITED

(ESTABLISHED IN 1840),
SOLE MAKERS IN GREAT BRITAIN OF

METALLIC CAPSULES,

AND PATENTEES OF THE

COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Fraud and Refilling of Old Labelled Bottles), as supplied to Bass & Co., Hennessy and Martell Cognac, and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

PLAIN ORDINARY CAPSULES,

For Small Phials, 2*s.* 6*d.* and upwards per 1,000, according to size, style, design, and quantity.
SPECIAL CONTRACTS FOR CONTINUOUS DEALING.

Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1*s.* per lb. and upwards; **Mixed Foil** (Foreign Quality), from 6*d.* per lb. (according to gauge); **Patent Barrel Packages and Snuff Canisters, Tea Packages, &c.**

COLLAPSIBLE TUBES AND SPRINKLERS

FOR PERFUMERS AND OTHERS.

MANUFACTORIES:—LONDON: Chief Office and Factories, Wharf Road, City Road, E.C.; and Holloway and Batavia Mills, Holloway, N.W.—BIRMINGHAM: Moor Green Fields.—PARIS: Office, 65 Rue Verrerie.—BORDEAUX: Office, 3 Quai de Chartrons; Factory, Monrépos, Floirac.

PATENTEES OF HYDRAULIC & MECHANICAL PRESSURE CAPSULING MACHINES.

ESPECIALLY ADAPTED FOR CHEMISTS' COUNTERS.
Largely in use by the Trade, and efficiency guaranteed for all sizes of Bottles, at Royalties from 5*s.* to £2 2*s.* per annum.

TOILET ROLLS.

THE TRADE

are respectfully requested to apply to their Wholesale Houses for the REDUCED Price for

"BRONCO" TOILET ROLLS

(formerly No. 1 Thin),
which will take effect in July next.

THE "BRITISH" P. P. PAPER CO.

BANNER STREET, GOLDEN LANE, E.C.
Sole Manufacturers of
"Mazella," "Sanico," "Queen," "British No. 3," "Bronco," and "Bel-Cap" Rolls.

30

A PROFITABLE EXTRA

Wholesale only: 42 MINCING LANE, LONDON, E.C.
For Wholesale Terms and Agency apply to

PEARSE & MEEKING, Wholesale Tea Dealers,
42 MINCING LANE, LONDON.

TRADE MARK.

ARMOUR'S STANDARD PEPSIN.

ARMOUR & CO. are better situated than any other firm for the manufacture of Digestive Ferments, and this can be readily understood considering that the Laboratory, which is elaborately fitted, is within a stone's throw of the killing-floors, thereby enabling the stomachs to be handled whilst perfectly fresh.

PEPSIN.

Granular, 3,000 test.
Powdered Granular, 3,000 test.
Soluble Non-Hygroscopic.

In 1-oz., 4-oz., 8-oz., 16-oz. bottles.

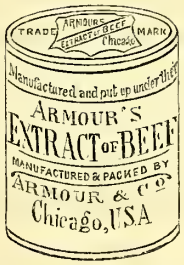
Strength guaranteed.

CAUTION.—This guarantee of strength only applies to original bottles (1-oz., 4-oz., 8-oz., and 1-lb.) bearing the regular Armour Label and Shield Trade Mark, as here shown.

POWDERED PEPSIN,
SCALE PEPSIN,
OR
GRANULAR PEPSIN.

ARMOUR'S EXTRACT of BEEF.

A perfectly concentrated Extract, containing all its stimulating and peptogenic properties without burnt taste and addition of chemical preservatives.



ARMOUR & CO.

59 Tooley Street,

LONDON.

TESTING SAMPLES FREE.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-); the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS. LONDON, E.C.

Saleable and Profitable Items.

"ZYMINE" PEPTONISING POWDERS.

When the very young baby has to be fed artificially, the question of preparing its food in such a way that it is adapted to the infantile powers of digestion is of very special importance. The rational food for infants is naturally mother's milk, but when this is not available, recourse must be had to cows' milk. Now, cows' milk by itself and unprepared is completely impossible of digestion by the infant stomach, but by means of "Zymine" Peptonising Powders it may be made to resemble mother's milk in every particular, forming fine flakes instead of curds when acted upon by the digestive juices, and agreeing when everything else is rejected. Milk so treated is sweet and palatable, and suitable for all the purposes for which plain milk is generally used. The process of peptonisation is extremely simple, and can be carried out by the most inexperienced of nursemaids. *The British Medical Journal* reported:—"The introduction of 'Zymine' Peptonising Powders has probably done more than any other therapeutic measure of recent times to lessen infant mortality." For the preparation of all manner of foods for invalids with weakened digestive powers the peptonising powders are singularly well adapted. In each box of powders is enclosed a brochure giving numerous recipes. Supplied to the Trade in boxes, each containing one dozen tubes, at 14/- per dozen.

ZYMINISED NUTRIENT SUPPOSITORIES.

The increase of knowledge and skill in medicine and therapeutics is in nothing more conspicuously exemplified than in the now perfected method of feeding *per rectum*. That the rectum has great powers of absorption is generally known, but the difficulty which confronted the Medical Profession for many years was the administration of foods in an easily assimilable form, which at the same time would not cause rectal intolerance. Dr. Barlow, in a report before the Clinical Society some years ago, said:—"With regard to rectal alimentation it is often observed that after two or three days the rectum becomes intolerant of nutrient enemata." It is manifest that the assimilation of a food must be easiest when that food is *digested beforehand*. The Zyminised Suppositories contain only peptonised (pre-digested) concentrated meat or milk and digested oil, and it has been amply demonstrated that they may be successfully employed to sustain life in infants and adults whenever, for any reason, feeding by the stomach is impossible or undesirable. In fevers, consumption, gastric, œsophageal, and intestinal diseases, peritonitis, after surgical operations, in "typhoid states" of disease, and in all wasting affections of children and infants, they are capable of sustaining life for months. They are retained almost without their presence being felt, and will be found of desirable consistence and perfect preservability. Zyminised Meat and Zyminised Milk Suppositories, in boxes of one dozen, 22*s*. per dozen boxes.

THE PATENT ALUMINIUM SYRINGE.

(B., W. & CO.)

A new and improved syringe.

One of the reasons why hypodermic medication was at first so slow in becoming popular was the almost invariable objection to it on the part of the patient. No doubt the old and cumbersome syringes and clumsy needles made the operation of injection needlessly painful, but in the present day this can no longer be urged. The Patent Aluminium Syringe (B., W. & Co.) is adapted for use with all solutions for subcutaneous medication, and is not affected by any climatic condition. The Syringe has a sheath of pure

aluminium which renders it incorrodible, and also much less weighty than the usual heavily-cased instruments; it can be quickly and easily taken to pieces, and may be readily and perfectly sterilised with absolute alcohol. Price (with two needles) 7/.

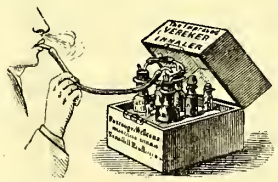
MENTHOL SNUFF.

(*Insufflatio Mentholalis Comp.*)

The formula for this includes Menthol, Ammon. Chloride, Cocaine, Camphor, with a harmless diluent. The frequency with which this preparation now appears on prescriptions proves its efficacy as a means of applying menthol to the nasal mucous surfaces. Being prepared by a special process it does not become lumpy or gritty, nor does it clog the nares. Supplied to the Trade in boxes at 8/- per dozen.

VEREKER CHLORIDE OF AMMONIUM INHALER.

The benefits derived from the use of Chloride of Ammonium in throat and lung troubles have been so marked that a considerable demand has arisen for inhalers for the production of the vapour. The difficulty of constructing an inhaler capable of generating absolutely neutral fumes was, however, for a considerable time a drawback



which somewhat retarded the general adoption of the treatment. The fumes, when either acid or alkaline, are very irritating, and to inhale them is likely to do more harm than good. On the other hand, neutral fumes have a most stimulating and cleansing effect upon congested and inflamed mucous membrane, facilitating expectoration, and relieving the laboured respiration at once. In the Vereker Inhaler the regulation of the tubes, ensuring neutrality of the fumes, is a very simple matter, and once charged it lasts for a considerable number of inhalations. Supplied to the trade at 5/- each.

BURROUGHS, WELLCOME & CO.

BEEF AND IRON WINE (B., W. & Co.)

In this preparation are contained the stimulant properties of Beef together with a readily-absorbed salt of iron. Its value as a tonic and stimulant cannot be over-estimated, and by reason of its palatability, stability, and perfect assimilation it has for a long time been justly valued by the medical profession as a desirable addition to the range of nutrient stimulants. In the treatment of those cases characterised by pallor, weakness, palpitation of the heart, with much nervous disturbance, this preparation is specially valuable for its tonic and force-producing properties, its peculiar features being that it combines nutrient, tonic, and stimulant material in a palatable and concentrated form. In the majority of cases attended by failure of strength the chief cause is the inability to digest nourishing food, hence it is desirable to supply this necessity in a form acceptable to the stomach, and at the same time to excite this organ to perform its functions. On the other hand, wine, if taken alone, will often produce headache, excitement, and other symptoms which are entirely avoided if given together with the nutrient properties of beef.

This preparation may be most comfortably borne by the most delicate or sensitive patient to whom other forms of wine are inadmissible. As a nutritive tonic it is indicated in the treatment of impaired nutrition, impoverishment of the blood, and in all forms of general debility. Each tablespoonful contains the essence of an ounce of beef, with two grains of citrate of iron dissolved in good sound-bodied sherry.

Supplied to the Trade in ½-lb. and 1-lb. bottles at 22 - and 42 - per dozen bottles.

Burroughs Wellcome & Co., Snow Hill Buildings, London.

Cable and Telegraphic Address—"BURCOME, LONDON"

HEARON, SQUIRE & FRANCIS,

38 Southwark Street,

LONDON, S.E.

ANALYTICAL & MANUFACTURING CHEMISTS

SPECIALITIES—"HERON" BRAND.

EMULSION OF PETROLEUM,
With the Hypophosphites of Lime and Soda.

ESS. PRO MIST. FERRI CO. 1-7.
It has the strong odour and bitter aromatic taste of good quality myrrh combined with the fragrant smell of volatile oil of nutmeg.

EXT. CACT. GRANDIFLOR. LIQ.
A cardiac tonic indicated in functional disorders of the heart, especially in palpitation arising from reflex irritation in dyspepsia and in the milder forms of angina pectoris.

EXT. CASCAR. SAG. LIQ. (Soluble).
Free from the nauseating taste of the corresponding Liquor of the Pharmacopœia. It remains bright when diluted with water in any proportion.

EXT. COCÆ LIQ. (Soluble).
Identical in strength with the official liquid extract, from which it differs by mixing bright with water, wine, or syrup.

EXTRACT OF MALT IN VACUO.
Solid and Liquid. Keeps perfectly, and possesses the characteristic flavour of malt.

LIQ. CAULOPHYLL. ET PULSATILLÆ.
An effectual remedy in uterine functional derangements, particularly in dysmenorrhœa.

LIQ. IPECAC. PRO VINO. 1-19.
Contains 1¼ per cent. of Emetine, and gives with detannated Sherry a Vinum Ipecac. that is *bright, stable,* and uniformly *active.*

PEPSIN GLYCERIN ACID.
A strong solution of peptic principles of definite strength; a stable and digestive fluid of great activity.

SOL. PEPSIN c. EUONYMIN.
A biliary stimulant and digestive agent of pronounced efficacy.

Quotations for Recipes on application. **ROLLED PILLS.** Uncoated, Pearl, or Gelatine Coated.

CONCENTRATED LIQUORS FOR SYRUPS. CONCENTRATED WATERS 1-40.

EVERY CLASS OF PHARMACEUTICAL GALENICALS.

NEUTRAL AND CLOUDY. **SYR. HYPOPHOS. CO.** NEUTRAL AND BRIGHT.

Evaporation of Pharmaceutical Preparations conducted in Vacuo.

ESTABLISHED AT 95 BISHOPSGATE STREET, 1714.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859.

CHIEF OFFICES: 42 CANNON STREET, LONDON, E.C.
BRANCH OFFICES: 231 ELIZABETH STREET, MELBOURNE, VICTORIA, AND EMPIRE CHAMBERS, YORK STREET, SYDNEY, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year payable in advance, including a copy of the DIARY next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "EDWARD HALSE," and crossed "MARTIN'S BANK (LIMITED)."

CONTENTS: Vol. XLVI. No. 26.

	PAGE
Agricultural Society's Show: Chemical Exhibits	889
Bankruptcy Reports	903
Business Changes	899
Chemical Society	906
Chemists' Co-operative Society (Limited)	899
Correspondence	912
Deaths	905
Deeds of Arrangement	904
Editorial Comments:—	
A New "Bentley"	896
Pharmacy Below Par	897
Somerset House Troubles	898
Notes	898
English News	882
French News	887
Gazette	905
Indian News	906
Irish News	886
Legal Reports	902
Marriage	905
New Books	905
New Companies and Company News	911
Personalities	905
Pharmaceutical Society of Great Britain:— North British Branch	888
Scotch News	886
Trade-marks Applied for	887
Trade Notes	895
Trade Reports	908
Western Chemical Association	906

SUMMER ADVERTISING.

SEE TO IT BEFORE THE ELECTION.

THE advantage of advertising in THE CHEMIST AND DRUGGIST is that it goes to subscribers in all parts of the earth, to men actually in business, to men who buy as well as sell. This universal circulation means that it is spring, summer, autumn, or winter every week where THE CHEMIST AND DRUGGIST goes, so that there is no class of speciality which cannot be profitably advertised in it at any time.

THE SUMMER ISSUE

will be a splendid one. July 27 is the date. Please keep it in mind. THE CHEMIST AND DRUGGIST of that date will be a double literary number, produced in excellent style, and enclosed in a beautiful wrapper, new and designed specially for this number. The beauty of our Summer Issues is the talk of three continents. We are proud of it; but we have greater satisfaction in thinking that everyone who advertises in these issues is the better of that talk. We should like every firm in the kingdom to share in the good things which will follow the distribution of our Summer Issue to subscribers and others at home and abroad. Early application for space should be made to the Publisher, 42 Cannon Street, London, E.C., who will also furnish particulars regarding the insertion of circulars and price-lists in the number. The latter is one of the most effective and cheap methods of advertising known.

Summary.

THIS number completes vol. xlvi., and we present an eight-page index. Bind the numbers at once.

WE note a large number of business changes this week on p. 886 and on p. 899.

WE report a large number of chemical and drug contracts which have been settled (p. 883).

A NEW Bentley's "Botany," accredited to Professor J. R. Green, has been published this week (p. 896).

WE comment upon a new order by the Local Government Board in regard to union dispenserships (p. 897).

EBENEZER COX'S aliases were the subject of a cross-examination at the High Court last week (p. 834).

A DISPENSARY caretaker has given his wife a dose of chloral hydrate in mistake for Epsom salts (p. 882).

THE wife of a chemist at Retford has been burned to death, owing, apparently, to a lamp-accident (p. 882).

DR. T. R. ALLINSON has been fined 20*l.* and costs for using the L.R.C.P., which the College deprived him of (p. 885).

THE annual meeting of the North British Branch has been held, and a new Executive elected. The meeting was poorly attended (p. 888).

FOUR cases of carbolic-poisoning are recorded (p. 885); also several from strychnine, potassium cyanide, and prussic acid in the news section (p. 882).

THE Paris Academy of Medicine is endeavouring to put down the growth of alcoholism in France. Their theory is the old one—"bad whisky" (p. 887).

A NEW pharmacy law has been agreed to in Guernsey, which defines what traders, other than those holding English and French diplomas, may sell (p. 884).

THE men who represented themselves as the London and Provincial Advertising Company are now enjoying a well-earned holiday at H.M.'s expense (p. 835).

FOR the first time in the history of the Chemical Society a woman last week read a paper at the meeting. Professor Ramsay made a communication in regard to helium (p. 907).

MR. SWIFTE, the Dublin Magistrate, has convicted the executors of Fannin & Co., surgical-instrument makers, for selling poisons, and has imposed three penalities and costs (p. 902).

WE give some information regarding the proposed new State laboratory, and the relations between Dr. Thorpe and the staff at Somerset House and the Customs laboratories (p. 898).

THE Magistrates at Leicester, in sentencing two men for stealing and receiving "patents," strongly condemned the practice of retailers purchasing parcels of such goods from strangers (p. 882).

A LARGE section of this issue is devoted to an illustrated description of the chemical exhibits at the Royal Agricultural Show held at Darlington this week. The exhibits are more numerous this year, and our reporters find a growing appreciation amongst country chemists of the value of this annual exhibition (p. 889).

MR. JUSTICE STIRLING has decided in favour of Hertz & Collingwood refusing to restrain them by injunction from advertising that they are sole agents for Franz-Josef water; but his Lordship does not agree that purchasers of the water from other agents may be made parties to any proceedings which Hertz & Collingwood think fit to take (p. 901).

A LIST of the shareholders in the Chemists' Co-operative Society (Limited) is published on p. 899. From this it appears that the public, as distinguished from promoters, directors, &c., did not subscribe for more than about 13,000 out of the 150,000 shares offered, and that 4,000 of these were taken by one person. The company states that they have yet to allot some 60,000 more shares; but these are probably shares which they hope to place among vendors of businesses.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Chloral for Epsom Salts.

At Clerkenwell Police Court on June 21, Alfred Sandford (41), a labourer, was charged with causing the death of his wife, Caroline Sandford, on June 19, by administering to her a dose of chloral hydrate. According to prisoner's statement, his wife wanted a dose of salts, and he went to Mr. West's veterinary surgery, of which he was caretaker, and took something he thought to be Epsom salts from a bottle. About three teaspoonfuls of this he dissolved in water and gave to his wife, who at once complained that it burned her mouth, and was not the right stuff. She was taken to the Royal Free Hospital, where she died. Prisoner was remanded on bail.—The inquest on the dead woman was held on Monday, when the jury returded a verdict of death by misadventnre, and severely censured the husband for his fatal carelessness.

Burglaries.

The shop of Mr. Robert Smith, chemist and druggist, Old Market Place, St. Helens, was broken into last week, and about 50*s*. in money was taken, as well as some magnifying-glasses, hair-brushes, teething-powders, perfume, an enema, and a respirator.

At Birmingham on Tuesday James Butler (25), an ironcaster, was indicted for breaking into the shop of Messrs. Alfred Southall & Co., Easy Row, and stealing eight thermometers, a magnifying-lens, a door-key, fifteen pairs of opera-glasses, and 10*l*. 5*s*. in money, or alternatively for receiving the goods knowing them to be stolen. The jury found him guilty on the alternative charge, and he was sentenced to twelve months' hard labour.

An Under-aged Shop-girl.

Mr. George Kingerlee, chemist and druggist, Castle Street, Buckingham, has had to pay a fine of 2*s* 6*d*. and 12*s*. 6*d*. costs for not sending Mary Wilcox, now in his employ, regularly to school. The girl will be thirteen years of age within a fortnight. Nevertheless, the School Board thought it a serious case.

International Dental Congress.

It has been proposed to hold an International Dental Congress in London next year, but when the matter came before the British Dental Association the movers in it failed to carry the meeting with them.

"Love, *dear* Love!"

At the London Sheriff's Court, Red Lion Square, on June 20, Percy Wilfrid Purdie (22), a chemist, of 5 Sun Street, Finsbury, E C, was ordered to pay 150*l*, damages for seduction, to Miss Edith Kate Bristow, the daughter of a Westgate-on-Sea boarding-house keeper. It appears that the young man's father is the owner of an old-established bnsiness in Finsbury, and early in 1894 he went down to Westgate to serve part of his articles, and whilst there made the acquaintance of the plaintiff, a young lady of some personal attraction. He made love to her in an open way, wrote her absurd and ludicrous letters, poems, and sonnets, and when he returned to London to study for his examination he, in October last, asked her to come to London to see him. She took the trip on the quiet, and then the seduction took place. She asked for 500*l*. damages, but the jury gave her 150*l*.

At Chelmsford Petty Sessions, Frederick John Hurst, chemist's assistant, Sudbury, was summoned by Elizabeth Waskett, of Waltham, in respect to the maintenance of her child. Complainant stated that last year she was in the service of Mr. R P. Green, pharmaceutical chemist, Witham, where the defendant was an assistant. He was intimate with her on one occasion, and she was dismissed from her situation as soon as her condition was discovered. The Bench ordered the defendant to contribute 2*s*. 6*d*. a week towards the maintenance of the child until it is 14 years of age, and to pay the costs.

The Cayenne-lozenges Case.

At the adjonrned inquest held at Southampton regarding the death of Emma Cardy, a domestic servant, who, after eating a nnmber of cayenne lozenges "for fnn," suffered from intense gastric irritation, which terminated fatally, Dr. E. F. Eliot gave evidence showing that the cayenne had set up inflammation, an opinion which was corroborated by Surgeon-Col. W. P. Stevenson and the *post-mortem* and analytical evidence. The jury returned a verdict accordingly.

A Wholesome Word about Cheap Patents.

At Leicester, on Thnrsday, Jnne 20, before Messrs. O. Tabberer, T. Canner, and R. J. Goodacre, Wm. Burden (28), and Alex. Wm Adcock (20) were jointly charged on remand with stealing from the warehouse of the Leicester Co-operative Society, Union Street, since January 1, 57 boxes of Carr's fever-powders, 114 boxes of Beecham's pills, and 86 boxes of Whelpton's pills, the property of Amos Lythall and others, value 24*l*. 7*s* 6*d*.; they were fnrther charged with receiving the same well knowing them to have been stolen. The evidence reported last week having been repeated, Richard Jewsbury, a grocer, testified that Burden offered him goods for sale, saying that they were part of a hankrupt stock his father had picked up in Birmingham. Burden supplied him with a quantity of tobacco and medicine, for which witness paid 2*l*. 12*s*. 3*d*. On a subseqnent occasion he purchased a further lot of medicines from Burden, for which he paid him 2*l*. 14*s*. 9*d*., and on a third occasion pnrchased the same kind of goods to the extent of 2*l*. 15*s*. 4*d*. Witness sold a quantity of pills to customers, and what remained he handed over to Detective-sergeant Beamish. Adcock pleaded gnilty to the charge of theft, and Burden to receiving the goods. The Chairman said the Bench had decided to send each of the prisoners to gaol for fonr months with hard labour. They also wished to express their sense of the objectionable temptation offered to be dishonest by dealers purchasing stock in the irregular manner which had been admitted in that case.

A Chemist's Wife Burned to Death.

On Wednesday evening last week, Mr. R. S. Ward, chemist and druggist, Carol Gate, Retford, was sitting in his room, when Mrs. Ward rnshed into it enveloped in flames. She was burnt in a fearful manner about the chest—indeed, when Dr. Trevor Pritchard was called in at midnight her clothes were still smouldering and the portion over the chest was quite burnt away. Mrs. Ward was taken to the Cottage Hospital, where she died at the end of the week. An inquest was held on Monday, June 24. The husband in his evidence said deceased was 53 years of age. On Wednesday, when he arrived home from Doncaster, where he was visiting his brother, his wife appeared slightly the worse for drink. He was himself perfectly sober. His wife was then sitting in the kitchen, but he did not speak to her. He sat down in an easy-chair in the room at the back of the shop, and thought he must have gone to sleep. About 11.30 he was aroused by the screams of his wife, who rushed into the room with her clothes all on fire. He tried to smother the flames, and ran for Dr. Pritchard, who attended immediately. He had not the slightest idea how she got on fire. Dr. Trevor Pritchard said he found the whole of Mrs. Ward's chest and the upper part of the abdomen bare. She was also extensively bnrnt round the neck, and the collar of the dress was still smouldering. There were also extensive burns on the hands and arms. He attended her up to the time of her death, which was caused by severe burns, followed by pneumonia, which set in abont eighteen hours before death. She made two contradictory statements to him seven or eight minutes after he saw her. He asked her how the flames were cansed, and she first said that her husband threw a lamp at her. She subsequently told him

that she was going upstairs with a water-bottle in one hand and a lamp in the other, and her hair, which was loose, and some part of her dress must have caught fire. The Coroner then called Mr. Ward's attention to the statement made by the deceased that he threw a lamp at her. Mr. Ward said he would like to deny this statement on oath. Fanny Saxilby said she went to nurse Mrs. Ward, and was told by her several times that the piece of her dress was set on fire by the flame from the benzoline-lamp. The jury returned a verdict of accidental death.

Where did the Irritant Come From?

An inquest has been held at Cheltenham regarding the death of Emily Elizabeth Hull (4½), who, according to the evidence, had been seized with vomiting, and got a mixture prepared by Dr. S. W. Smith. She made no progress and was taken to the General Hospital, where she died. Dr. Trevithick, physician to the institution, made a *post-mortem* examination, and stated that death was primarily due to irritant poison. Dr. Smith mentioned the components of his mixture, and Dr. Trevithick said they were perfectly harmless. The inquiry was adjourned for an analysis of the stomach-contents to be made by the county analyst.

The Wrong Bottle.

Elizabeth Clara Henessey (37) died at King's College Hospital last week from poisoning. She had swallowed some eye-lotion of a very poisonous character in mistake for a cough-mixture.

An Unprofitable Customer.

A runaway horse last week ran into Mr. J. G. Wildgoose's pharmacy on Alfreton Road, Nottingham, and smashed the window and its contents.

Midland Pharmaceutical Association.

The following appointments have been made by the Council for the ensuing year:—President, Mr. R. Darton Gibbs; vice-presidents, M. F. J. Gibson (Wolverhampton) and Mr. T. W. Chapman; hon. librarian, Mr. J. Barclay, B.Sc.; hon. treasurer, Mr. F. H. Prosser; hon. auditors, Mr. C. Corfield and Mr. J. Wakefield; and hon. secretary, Mr. C. F. Jarvis, Villa Road, Handsworth, Birmingham. Mr. A. D. Gibbs and Mr. C. Thompson were appointed delegates to the meeting of the "Federation" at Bournemouth.

Cyanide-poisonings.

Herbert Mawe Belton (36), 7 Orchard Avenue, Hull, a timber-merchant's clerk out of a situation for some time, last week helped himself to some white stuff from a bottle labelled "Poison" which a friend had left in his house. It turned out to be potassium cyanide, and he died. The evidence at the inquest pointed to suicide.

Dr. E. M. Grace, the Gloucester Coroner, held last week an inquest regarding the death of a gentleman named Stephen Hughes, who had been found dead in a field. He had taken prussic acid.

On Tuesday, Dr. G. Danford Thomas held an inquest at Islington concerning the death of John Curran Challicom (52), a photographer. The evidence showed that he committed suicide on Sunday by taking potassium cyanide. He had been exceedingly worried by pecuniary difficulties, and in a letter which he left said, "Do not let parents put their sons to photography to get their livelihood."

Chemists at Cricket.

The annual cricket-match between teams chosen from the Wholesale and Retail Departments of Messrs. Reynolds & Branson, Leeds, was played on Wednesday, June 20, at West Hunslet, when the Wholesale proved victorious by 12 runs. Scores: Wholesale, 41; Retail, 29.

Contracts.

Messrs. Bishop & Son's tender to the Southampton Incorporation was 5 per cent. above (not below) Barron, Harveys & Co.'s list-prices.

Messrs. J. Corner & Co. have secured the tender for the supply of sanitary soap, at 36*s.* per cwt, to East Ashford (Kent) Board of Guardians.

The Midhurst (Sussex) Board of Guardians have accepted the tender of Mr. Bowyer for the supply of cod-liver oil at 12*s* per gallon, and of Mr. T. Mills, of Eastbourne, for carbolic soap at 3*d.* per lb., and linseed meal at 2*d.* per lb.

The Medway (Kent) Union Board of Guardians have accepted the contract of Mr. J. A. Chalmers for the supply of raw linseed oil at 2*s.* 1*d.* per gallon, boiled ditto at 2*s.* 1*d.* per gallon, sweet oil at 3*s.* 3*d.* per gallon, toilet-brushes at 7*s.* 5*d.* per doz.

At the annual meeting of the Louth Dispensary and Hospital, the Rev. E. L. Gardner asked that attention might be given to the division of orders for supplies to the institution amongst the trade of the town, and especially the chemists and druggists. Mr. Barton said that if the tradesmen of the town gave the hospital substantial support there would be no difficulty with the orders.

The General Purposes Committee reported to the Hornsey District Council, on Monday, that price-lists of drugs for hospitals had been obtained from five firms of wholesale chemists, with a view to providing a stock of drugs for use as required, and the committee recommend that an order be given by the medical officer to Messrs. C. J. Hewlett & Son, 40, 41, and 42 Charlotte Street, Great Eastern Street, E.C., whose terms were considered to be most favourable. The report was agreed to, the drugs being for the Isolation Hospital at Irish Corner, Muswell Hill.

The Guardians of the Isle of Wight Union have accepted the following tenders for the coming quarter:—Messrs. Coleman, London, carbolic acid, 1*s.* 4*d.* per gallon; Messrs. Pollard & Brown, Newport, brimstone, 2*d.* per lb.; crude Sanitas, 4*s* 4*d.* per gallon; lint, 1*s* 9*d.* per lb.; plaster, 2*s.* 4½*d.* per roll; carbolic soap, 18*s.* 6*d.* per cwt.; Sanitas soap, 1*l.* 11*s* 6*d.* per cwt.; Mr. A. Millidge, Newport, castor oil, 5*s.* 9*d.* per gallon; cod-liver oil, 9*s.* 6*d.* per gallon; Jeyes' fluid, 4*s.* per gallon; oiled skin, 3*s.* per yard; Messrs. McDougall Brothers, London, chloride of lime, 12*s.* 6*d.* per barrel; Mr. R. Smith, Newport, cotton-wool, 1*s.* 6*d.* per lb.; Messrs. Walter Wells and H. Sheppard & Son, babies' bottles.

The following contracts for the year 1895–96 have been accepted by the London County Council:—Disinfectants: carbolic acid, 90 per cent., J. L. Wade & Co.; carbolic powder, J. L. Wade & Co. and Adcock, Easton & Co.; chloride of lime, Middleton Brothers; permanganate of potash, J. L. Wade & Co.; permanganate of soda, Middleton Brothers; sanitas, the Sanitas Company; Tuson's fluid, Middleton Brothers. Sundries: beeswax, Middleton Brothers; camphor, Wiggins & Rihill; glycerine, Mendey & Co.; petroleum jelly, Aldridge & Son; Keating's powder, Medhurst & Co.; soap, Percival & Co., Aldridge & Co., Medhurst & Co., and Mendey & Co.; sealing wax, Aldridge & Co. Oils: castor oil, Collhurst & Harding; gas-engine oil, Palmer & Co.; lard oil, Grindley & Co.; linseed oil (boiled and raw), Wiggins & Rihill; neatsfoot oil, Pinchin, Johnson & Co.; olive oil, Phillips & Co.; turpentine and tallow, Wiggins & Rihill; colza oil, Johnson Brothers; sperm oil, Palmer Brothers.

Took Two Packets of Battle's.

An inquest was held at Manchester on Wednesday, June 19, in regard to the death of John Welsh (46), a labourer, who poisoned himself with two 3*d.* packets of Battle's vermin-killer. He sent a young son to the shop of Mr. Thomas Burn, chemist, Rochdale Road, but they refused to supply him. Welsh then went to the shop himself, and explained that his house was overrun with mice, when the poison was supplied and signed for. James Timlott, one of Mr. Burn's assistants, was called as a witness. One of the jurymen asked if two packets was not a large quantity to sell to one person, to which he replied, "No." And the Coroner (Mr. Smelt) added, "He had a right to sell fifty packets if he chose." The jury returned the usual verdict.

They Disagree about a Wine-licence Transfer.

At the Richmond Sessions on Thursday, June 20, Mr. George Watson Black, chemist and druggist, applied for temporary authority for the sale of wines and sweets at premises known as Winton's Drug-stores, George Street, Richmond. Mr. Black stated that there had been some disagreement, in consequence of which Mr. Short, his late partner in the business (Winton's Drug-stores) would not

attend. Witness wanted the licence transferred to him for the sale of medicated wines only. The manager at the shop in George Street, Richmond, said he had seen Mr. Short about the licence he held, on several occasions, and asked him to sign the necessary papers, and he declined to do so. He, in fact, refused to sign. Witness did not think notice had been given to Mr. Short of that application. Mr. Black: He knows. Alderman Burt: How? Mr. Black: Through the police, to whom he went. Inspector Dowty said that Mr. Short came to the police-station and said that Mr. Black wanted him to transfer the licence, but he was not going to. Nothing was said about the application. After a brief consultation in private, the Mayor said that the case would be adjourned for a week so that applicant might put himself in order. He must give Mr. Short notice of his application.

Botanical Rambles.

The students of the Sheffield College of Pharmacy, accompanied by the principals, took a botanical ramble to Conisbro on Thursday, June 20. This place, which is some fourteen miles from Sheffield, is famed for its castle, which Scott has immortalised in "Ivanhoe." Most of the party took boat on the Don in search of conium, which grows plentifully along its banks. Among the specimens collected may be mentioned *Listera ovata* (twayblade), *Habenaria albida* (small white orchis), *Epipactis palustris* (marsh helleborine), *Helleborus fœtidus* (stinking hellebore), and *Sanicula europæa* (wood sanicle).

The day students of the Northern College of Pharmacy, Manchester, numbering about thirty journeyed on Friday, June 21, to Knutsford, walking from there through the woods and meadows to Peover, thus traversing one of the most prolific botanical districts in Cheshire. A grand collection of specimens was obtained, including many official and scheduled plants. These were named and described by Messrs. Clayton and Lawson. Arriving at Peover, the interior of the old church was inspected; then, after refreshment and music at the Tabley Arms, the party returned to Manchester, a most profitable and instructive afternoon having been spent.

A New Pharmacy Law in Guernsey.

The Guernsey States last week took into consideration the following as an amendment to the previous Ordinance:—

A Provisional Ordinance Relating to Chemists, &c.

I. No person shall be allowed to follow the profession of chemist in the island, nor to put up, sell, and retail medical preparations, without being duly licensed by the Court, after presentation of a diploma from the Pharmaceutical Society of England or from any Faculty in France. Well understood that the following substances shall not be considered, for the purposes of the present Ordinance, as medical preparations—namely, castor oil, cod-liver oil, seidlitz-powders, vaseline, alum, bicarbonate of soda, Epsom salts, senna-leaves, cream of tartar, tartaric acid, citric acid, magnesia saltpetre, borax, ammonia, and sulphur.

II. And hereby are exempt all those persons who followed the profession of chemist in this island previous to January 16, 1895.

The Ordinance of January 16, 1835, relating to chemists, &c., is hereby repealed; and the present Ordinance shall be considered in force until the Court of Chief Pleas held after Michaelmas, 1895, &c.

E.—To approve of the tenor of the Ordinance called "A Provisional Ordinance relating to chemists, &c.," as an amendment to the Ordinance on the same subject enacted January 16, 1895.

H.M.'s Procureur suggested that the word "ammonia" be altered to "carbonate of ammonia," and after Dr. W. MacCulloch, one of the Jurats, had explained the difference, the States adopted the proposed alteration.

Jurat de Garis wished to make an amendment to the first part of Article X, which he read as follows:—

None shall be able to exercise the profession of chemist or physician, neither to prepare, sell, or retail any medicament in this island, without having been admitted by the Court, and this after presenting a diploma of the Pharmaceutical Society of England or of the Faculties of France.

He considered those who held diplomas from any established pharmaceutical body in England or France should be eligible. This was seconded by Mr. J. Brouard.

Jurat de Garis thought that the diplomas of continental colleges should be recognised as well. Advocate William Carey instanced how lately a qualified man from a Dublin college was refused a diploma.

The article was adopted with the modification.

Pharmacy in Jersey.

Mr. H. C. D. Brodhurst, who for some years has represented Messrs. Lynch & Co. (Limited) and Messrs. Baiss Brothers & Co. as wholesale agent in Jersey, will in September open the "Halkett Drug-stores" at 11 Halkett Place, St. Helier, Jersey. The premises are large and advantageously situated. Mr. Brodhurst will assume personal charge of the dispensing department, having duly qualified therefor. He will relinquish his wholesale trade in Jersey, though still travelling occasionally to the sister island of Guernsey on behalf of his old firms.

Before the Royal Court of Jersey on June 22, an application was made for the registration of a diploma of Pharmacien de 1ère Classe granted to M. Ernest Claude Chat, Conway Street, by the Ministre de l'Instruction Publique of France, and delivered by the Rector of the Academy of Paris, on May 14, 1878. The Bailiff (chief magistrate) remarked the Court did not register what the law did not require, unless it was shown to be for the public good; and, though M. Chat's advocate urged the importance of the public being in a position to know who were duly qualified as chemists, the Court rejected the application. In Jersey, it should be pointed out, unregistered chemists may practise without let or hindrance.

A Strange Sequel.

On June 15 we reported that a young chemist had committed suicide by taking strychnine in Bushey Park. Since then a lot of the fish in the Diana fountain pond have been found dead, and a theory prevails that the young chemist threw some of the poison into the pond as he passed it.

Early Closing.

At the town of Losthwithiel the chemists and druggists have decided, in conjunction with the other tradesmen, to close their places of business each Wednesday at one o'clock, instead of at four o'clock as heretofore.

A Doctor Commits Suicide.

Dr. J. E. Terrell, an old Halifax surgeon, was found dead on Friday evening in his house, Oxford Terrace, with a prussic-acid bottle beside him. He appears to have gone out of his mind, for two days before he assaulted his housekeeper with a hammer.

A Many-named Chemist.

In the High Court on June 20, Mr. Justice Mathew heard the evidence in a bill-of-exchange case, which does not interest the drug-trade a bit except that one of the witnesses was Mr. Ebenezer Cox, who described himself as a chemist and druggist, residing at 21 Harvard Road, Gunnersbury, and part of his cross-examination certainly deserves to be recorded in The Chemist and Druggist.

Cross-examined by Mr. Calvert: Is Ebenezer Cox your true name?—Yes.

Did you ever go under the name of C. Morton Cox?—E. M. Cox I may have done.

Do you ever go under the name of George Alexander & Co.?—I traded under that name.

Do you also trade as Alexander Benson & Co., of Coleman Street?—Yes.

Did you ever go under the name of E. Stanley Crawford?—Yes.

Did you obtain some clothes from a Mr. Lee, of Greek Street, Soho, in the name of Stanley Crawford?—Yes.

Did you ever pay for the clothes?—Something on account.

How much?—I cannot remember.

Will you swear you ever paid him a penny?—I cannot swear to it.

The Judge: You will not swear. It is a plain question, and I want an answer. Witness: I am really not sure. My impression is that I have.

Mr. Calvert: Did you cash cheques in the name of Alexander & Co. which were worthless?—I think if I ever did so I paid for the cheque.

Will you swear you paid for a cheque in the name of Alexander & Co.?—I verily believe I have.

Did you belong to a cricket-clnb at Chiswick?—I did.

Were you expelled from that club for giving bogns cheqnes?—No, I was not.

The Judge: Did you leave the club?—I resigned.

Mr. Calvert: Was it in connection with bogus cheques that you resigned?—It had to do with a cheque at the time.

The Judge: The cheque was dishononred?—Yes; but it has since been paid.

Mr. Calvert: Were you summoned at the Mansion House for cashing a cheque which you drew in an assumed name, and made payable to yourself?—No, I was not.

Were yon snmmoned at the Mansion House?—Yes.

For what?—For a transaction of that sort, but not made payable to myself.

To whom was it payable?—To a brother of mine, F. J. Cox.

There are a number of Cox's on the Register, but none of them the same names as those used by the witness.

Dr. Allinson and his Title.

Thomas Richard Allinson, of Spanish Place, Manchester Square, W., appeared at the Marylebone Police Conrt on Tnesday, in answer to summonses for using the description of L.R.C.P. and falsely using the title of licentiate in medicine. Mr. Mnir McKenzie, barrister, prosecnted, and Mr. Yonng, barrister, defended. Mr. McKenzie said the defendant was, in 1879, registered in the Medical Register as L.R.C. Edinbnrgh, and also L.R.C.S. Edinbnrgh. On May 28, 1892, his name was erased after an inquiry held under the Medical Act. He subseqnently brought an action complaining of the decision of the Council, and it was dismissed in the High Conrt and also in the Court of Appeal. He had, however, until now held himself out as L.R.C.P. Edinburgh, and had also used the initials L.R.C.P. The defence was that there was no proof that the defendant had infringed the Act. The mere fact of the erasure of a person's name, or the loss of a degree, did not interfere with his practising as a medical man. Mr Bennett thought the case was a bad one, and said there would be a fine of 20*l.*, with 10*l.* 10*s.* costs, or in defanlt of distress a month's imprisonment. Mr. Young asked for a case, bnt Mr. Bennett refused to entertain the application.

The Advertising-frauds.

Charles Harvey Matthews (20) and Richard Bennett (46), who, as previously reported, were charged with obtaining sums of money by frand from various Portsmouth tradesmen in respect to advertisements, were brought up for trial on Tuesday. Amongst the witnesses was Mr. F. B. Elwell, chemist, of 179 Albert Road, who testified that the prisoners represented themselves as agents of the London and Provincial Advertising Company, which does not exist. Prisoners were found gnilty. Matthews was sentenced to twelve months' imprisonment, and Bennett to nine months; both with hard labour.

Gas-cylinders.

Professor Boys, Professor H. B. Dixon, Dr. Dupré, the Rev. F. J. Smith, and Professor Unwin, who have been requested by the Home Secretary to inquire into and report on the mannfacture, filling, and use of gas-cylinders, commenced their inquiry on Monday at the Home Office. Professor Unwin was elected chairman. In the afternoon they visited Brin's oxygen-works. The inquiry was resnmed on Tnesday, and Mr. Coxeter, Mr. Joseph Ralph, and Colonel Majendie laid their views before the committee.

Helped Herself to Strychnine.

Emma Oakley (31), wife of Sergeant Oakley, of the Bodwin Depôt Hospital, suffered from melancholia, and last Friday got access to the poison-cupboard under the charge of her husband. She helped herself to strychnine, and shortly afterwards was found by her husband in the death-throes. At the inquest on Saturday, the jury retnrned a verdict that deceased poisoned herself with strychnine whilst in an unsound state of mind.

Weights and Measures Committee.

At the meeting of the committee on Tuesday, evidence in favonr of the metric system was given by Mr. T. Kyle (Aylesbnry), chairman of the Incorporated Society of Inspectors of Weights and Measures, who said it was called for, not only by international considerations, but quite as loudly in the interests of fair as distinguished from deceptive trading.

Carbolic-acid Poisonings.

The following are brief records of cases which have occurred since our last issue:—

Mrs. Ada Elizabeth Owen (23) purchased 12 oz. of the acid at a chemist's shop, 36 Church Street, Woolwich, drank it, and died. The chemist stated that he cautioned the deceased as to its use, and presumed she required it as a disinfectant.

Mrs. Jane Gregson, wife of a master painter in Anfield, Liverpool, attempted to commit suicide by drinking carbolic acid on June 4. Police-sergeant Matthews administered emetics, and sent for Dr. Philpot. The woman was further treated in the Mill Road Infirmary, where she recovered. She had to answer for her sin at the police court last Saturday, bnt was discharged.

George Unsworth, painter and paperhanger, Liverpool, had been out of employment for a time, and went to Mr. W. J. Leggett's drug-store in Boaler Street, and purchased at his place threepennyworth of carbolic acid, saying he wanted it for killing vermin. He drank it himself. At the inquest there was a short conversation between Mr. Leggett and the Coroner regarding the sale of carbolic acid. We may add that Mr. Leggett's name is not on the register of chemists and druggists.

The dead body of a young woman was found in a second-class railway-carriage at Chalk Farm last week. She had taken a large quantity of carbolic acid. Her name had not transpired when the inquest was held. She was, apparently, 22 years of age, height 5 feet 2 inches, dark-brown hair (frizzy), eyes light blue, scar on the right cheek. It is stated that a young woman answering deceased's description purchased sixpennyworth of carbolic acid at a chemist's shop in Ball's-pond Road, Islington.

Photographic Salon.

The third annual exhibition of artistic photography will open at the Dudley Gallery, Piccadilly, on Monday, September 30, and remain open till November 2. Particulars and entry-forms may be obtained from the honorary secretary at the Dudley Gallery, Egyptian Hall, Piccadilly.

Fatality to a Druggist's Traveller.

The Coroner at Barnstaple held an inquiry into the death of Tom Hill Rowe, a traveller for Messrs. Stone & Son, chemists, of Exeter, on Monday, June 24. From the evidence it appeared that deceased met with his death by a heavy fall in Cross Street, resulting in concussion of the brain. The inqnest was adjourned for a fortnight, in order to obtain the evidence of a fellow commercial traveller who was with deceased on the night of the accident, but had since disappeared.

Plymouth and District Chemists' Association.

An outing for members and their friends is to be held on Wednesday, July 10. The route will be by rail to Lydford, to visit the waterfall and the celebrated "Gorge." At the quarterly meeting of the Senior Section to be held on Wednesday next, July 3, a discussion will be started by Mr. Turney on "Light Charges for Dispensing."

Excursions.

On Saturday, June 22, the staff and employés of Messrs. C. J. Hewlett & Son held their annual outing, when a large party proceeded at an early hour to Eastbourne. The morning was spent in visiting Beachy Head and its neighbourhood. Dinner was served at the Pier Hotel, and Mr. J. D. Allman, the firm's senior traveller, occupied the chair. In proposing the toast of "The Firm," Mr. Allman referred to the progress during the twenty-five years in which he has represented Messrs. Hewlett & Son, and also to the altered conditions of trade. The interest of the firm in the success of the outing was shown by the reading of a telegram of good wishes from Mr. John C. Hewlett, who was in the north of England The afternoon was spent in excursions by sailing-yacht, &c., and the return journey commenced at 7.45. It was altogether an extremely enjoyable day.

The employés of Messrs. Howards & Sons, Stratford, had their annual excursion on Saturday last, June 22. Clacton-on-Sea was the place selected, and the party, which included many friends of the employés, numbering in all about 700, left Stratford by special train at ten minutes to 7. Clacton was reached before 9 A.M., and the whole party scattered about the town, the morning being occupied in boating, bicycling, tripping to Walton-on-the-Naze, &c. A large party of the foremen and their friends assembled at the Royal Hotel at 1 P.M. for dinner, under the presidency of Mr. Alfred G. Howard. In replying to the toast of "The Firm," which was proposed by Mr. Parker, the Chairman made a feeling reference to their old friend, Mr. John Hireson, who had been in their employ for more than fifty years, but who had passed away a few months ago. The special train which brought the party home reached Stratford about 10 P.M.

What was the Dose?

Mr. Charles Harrop (59), who resided at 2 Beaufort Road, Edgbaston, and was manager and traveller to the Crane Chemical Company, was in the habit of taking a certain drug for severe headaches. He was suffering on Monday afternoon, and told his coachman to drive to the shop of Mr. Williams, chemist, 22 Newhall Hill, where the dose was obtained and taken. Soon after, as he was being driven to the office, he complained of feeling very ill, and as he became worse when he arrived there he sent the coachman to fetch Mr. Brown. The latter found upon examining Mr. Harrop that he was very seriously ill, and called Drs. T. Nelson, of Reservoir Road, and Pogson, of Wills Street, with whom he consulted the case. Ultimately the patient was taken to the General Hospital, where he died.

Good Terms for Thirsty People.

In Spilsby, a town of 1,423 inhabitants, cutting seems to have reached its utmost development. Its inhabitants are now being supplied with syphons of soda-water at a halfpenny each! This is due to fierce competition between two rival manufacturers.

Irish News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Business Changes.

Dr. Robert Barry, L.A.H., Limerick, has removed from George Street to more extensive premises in Lower Mallow Street.

Mr. Charles O'Hagan, L.P.S.I., has acquired the premises in Hill Street, Newry, lately occupied by Messrs. A. McDonald & Co., ironmongers, and has reopened them as a pharmacy.

Dr. Hickey, L.A.H., has purchased the Medical Hall, Parliament Street, Dublin, conducted up to his death by the late Dr. Smith.

Dr. Collins, apothecary, formerly proprietor of the Medical Hall, William Street, Dublin, and Councillor of the Pharmaceutical Society of Ireland, has given up his establishment in Harcourt Street and gone to reside in England.

Dr. Philip Flood, L.P.S.I., apothecary to St. Vincent's Hospital, Stephen's Green, has opened a pharmacy in Lower Camden Street, Dublin. The premises were formerly occupied by Dr. Stritch, L.A.H., who has obtained a poor-law appointment.

A Courageous Chemist.

Last week at Dublin Mr. Davidson, manager of Messrs Goulding's chemical-works, North Wall, seeing a man struggling in the Liffey, at once plunged into the water, and gallantly bore him to a place of safety. Unfortunately, however, the rescue was fruitless, as the man succumbed to his immersion. The Coroner's jury warmly commended Mr. Davidson's courageous action.

Personal.

Sir Henry Cochrane is acting on a committee formed to convert Bray Head into a public pleasure-ground.

The Chemico-Agricultural Society have appointed Professor Hodges honorary consulting chemist.

Mr. William Eagar, mineral-water manufacturer, Fermoy, has been re-elected chairman of the local commissioners.

Sir Robert Jackson, Governor of the Apothecaries' Hall, Dublin, has been re-elected to the chairmanship of the Pembroke Township Commissioners, Dublin.

Scotch News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

The Fertilisers Act.

At a meeting of the Highland and Agricultural Society in Edinburgh last week, Dr. Aitken, the Society's chemist, reported the almost entire failure of the Fertilisers and Feeding-stuffs Act. Farmers do not avail themselves of it, while one unfortunate result of the passing of the Act had been the suppression of some of the most active of the analytical associations, and the abandonment of the useful educational work in which they were engaged. Some of the members of the Society did not agree with Dr. Aitken. A gentleman from Perth and three others, all noted agriculturists, said the Act was doing well. On the other hand, it was stated that it is a dead letter in Roxburghshire and Berwickshire, and they get along very well without it in Forfarshire. Dr. Aitken, however, maintained that over a large part of Scotland the Act is really a dead letter.

A New Idea which Works Well.

In connection with the botanical rambles of the Edinburgh Chemists', Assistants', and Apprentices' Association, a new idea has been started this season with a view to increase the interest and usefulness of these outings. The plan is to hold a summer meeting of the Association about a week before the arranged ramble takes place, and at this meeting the members are expected to bring forward as many of the plants likely to be met with as they can find opportunity of procuring. The first of these meetings was held in the Pharmaceutical Society's house, 36 York Place, on Wednesday, June 19, Mr. Alexander Sutherland, President, in the chair. Notwithstanding adverse weather, several members had procured a large supply of specimens, and these were laid out for exhibition. The meeting lasted from 8 30 to 10 P.M. During the early part of the meeting members had an opportunity of walking about examining and discussing the plants, which had been previously named and ticketed. At 9 15 P.M., at the request of the Chairman, Mr. Hill briefly pointed out the chief features of the plants shown, twenty-nine natural orders being represented. One interesting specimen was a plant of *Faba vulgaris*, the common bean, showing the roots covered with the tubercles, or nodules, which consist of colonies of nitrogen-fixing bacteria. Most of the specimens came from Colinton Dell, to which there is to be an excursion on June 26. Others were from Craig Leith. There was a good attendance, and a very profitable evening was spent, the general feeling being that the new idea had worked well.

Aberdeen Business Changes.

Dr. Knowles has lately opened a shop in Marischal Street.

Mr. John Lindsay has opened the shop 51 St. Swithin Street.

Mayor's Drug Company (Limited) have opened a shop in Great Western Road, opposite Nellfield Cemetery.

Mr. R. Sturrock, lately manager to Pond's Drug-store (Limited), has opened the shop 579 George Street.

Messrs. George Reid & Son have closed their West-end branch at 260 Union Street, and have sold the fittings to a provincial pharmacist.

Mr. James M. Patton, who was for so long with Mr. D. A. Mortimer, has lately purchased the branch business carried on by Mr. C. Simpson at 5 Victoria Road, Torry.

It is currently reported that two ladies are on the list of applicants for the dispensership at the Royal Infirmary, vacant through the retirement of Mr. H. M. Dugan.

Mr. John Alexander has sold the "Edinburgh Drug-stores," 275 Holburn Street, to Mr. H. M. Dugan, who has beeen dispenser at the Royal Infirmary for the past few years.

Dr. Ogilvie has opened in Mullburn Street, and Dr. Gall (a son of Mr. A. Gall, chemist, who was for so long in Skene Square, Aberdeen, and who is now in Australia) has opened a shop in George Street.

Mr. N. B. Cran has opened the shop 28 Esslemont Avenue. Mr. Cran purchased the fittings of the shop 168 Union Street, recently closed, from Mr. Andrew, and has had them renovated before setting them up afresh. Mr. Andrew's books were bought by Messrs. Davidson & Kay, chemists to the Queen.

French News.

A PHARMACIST IN TROUBLE.—A Toulouse pharmacist's assistant (Gaston Tournade) is under arrest for shooting his wife last Sunday.

A MILITARY LABORATORY.—A central laboratory of chemical analysis was established a short time ago at the French War Office with a view of testing the food-supplies furnished to the army by contractors. The control thus established is said to have an excellent effect.

THE SMELLS OF PARIS have at last awakened Parisians to protest, and the city authorities are taking steps to do away with the evil, and have enlisted the services of the leading sanitary authorities. The Council of Hygiene will be the principal movers in the investigations, and Professor Nocard, of the Alfort College, has been delegated by them to make a report on the subject.

SILICON.—M. Henri Moissan's communication to the Academy of Sciences this week was a note on the preparation of silicon by his electric furnace. Crystallised silicon in the form of beads, as studied by Sénarmont, was obtained by M. Moissan through reducing silica by charcoal, taking care not to have too high a temperature. If the heat is too great the silicon vaporises and gives silicon carbide.

THE TREATMENT OF DIABETES.—At the last meeting of the Academy of Medicine Dr. A. Robin referred to a mode of treating diabetes which he has found successful. For the first period of treatment, which lasts five days, he gives cod-liver oil, alkaline mineral waters, antipyrin, and Seignette's salt. During the second period, occupying fifteen days, he prescribes sulphate of quinine, arseniate of soda, alkalies, and 40-centigramme doses of codeine per day. The first five days' medicaments is also continued. Opiates commence a third period of ten days. Dr. Robin finds belladonna also very useful, while he uses bromide of potassium as an accessory. A fourth period of treatment with tonics has also been tried where the diabetes has been overcome and the patient requires strengthening. Dr. Robin states that he has obtained twenty-four complete cures out of 100 patients.

THE ALCOHOL QUESTION.—The discussion on the subject of reorganising the duty on alcohol, which has occupied so much time of the French Parliament of late, gave rise to a discussion on the same subject at a recent meeting of the Paris Academy of Medicine. The object was to call attention to the importance of providing measures against alcoholism and its disastrous results. Drs Bergeron and Laborde submitted the following proposition:—

This Academy considers that the continual growth of intoxication through industrial alcohols, essences, and compounds used for the artificial manufacture of wines and liqueurs is a source of serious danger to the public health. It is likely to engender impulsive and criminal madness, either directly or by hereditary channels. It tends also to the physical and intellectual degeneration of the organism and the species.

After stating that alcoholism is one of the causes of the depopulation of France, the document in question urges the necessity of combating the evil "in the interests of the nation and humanity." The following suggestions are made to this end:—"To assure, by legislation, the absolute rectification of all alcohol, as a means of preventing the sale of any impure product. Further, that the sale be absolutely prohibited of all products or compounds destined for the artificial manufacture of wine and liqueurs, or liable even simply to be added or mixed with them, such as 'bouquets,' oil of wine, aldehydes, &c." Drs. Bergeron and Laborde also add that "science has shown, both by experiments and observation, that the most impure and poisonous alcohols, of whatever composition, or however obtained, can be made by suitable rectification to appear similar to the best alcohol, though still remaining deleterious."

Trade-Marks Applied for.

ANY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," June* 12, 1895.)

Device of an egg; for mineral and aërated waters, &c. By E Steinkopff, 47 Berkeley Square, London. 187,508.

"VIBRONA"; for mineral and aërated waters, &c. By F. W Fletcher, Beauchamp Lodge, Enfield. 187,747.

"PEOPLE'S SOAP," the word "Hurrah," and device of John Bull sitting astride of the globe with oblong parcel in his hand; for perfumed soap. By C. H. Parsons & Co., Sarah Street Works, Leicester. The essential particulars are the combination of devices and the word "Hurrah." 187,164.

(*From the "Trade Marks Journal," June* 19, 1895.)

"B. F. E. C.," and device of boar's-head; for fuller's earth for manufacturing purposes. By the British Fuller's Earth Company (Limited), Woburn Sands, Bucks. The essential particular is the device. 187,286.

"PEPTONUM CARNIS," and combination of devices and wording on circular label; for peptone of beef. By Liebig's Extract of Meat Company (Limited), 9 Fenchurch Avenue, E C.

"LATHER AND LUCK," monogram and signature; for perfumed soap By C. H. Parsons & Co., Sarah Street Works, Leicester. The essential particular is the facsimile signature 186,002.

Device of female statue of justice; for perfumery and toilet preparations, &c. By S. Myer & Co, 2 New North Road, Hoxton, N. The essential particular is the device. 187,369.

(*From the "Trade Marks Journal," June* 26, 1895.)

"HARMONY BORAX" and device of lyre; for borax. By F. S. Steeten, trading as the Harmony Borax Company, 5 Quality Court, Chancery Lane, W.C. The essential particular is the device. 187,533.

"BENTINCK'S CELLADEMA"; for an ointment for veterinary purposes. By H B Budd, trading as Bentinck, London Road, East Park, East Grinstead. The essential particular is the word "Celladema."

"PIXIE"; for chemical substances prepared for use in medicine and pharmacy. By Thomson, Marshall & Co. (Limited), Aulton Brewery, Aulton, Aberdeen.

"OXIEN"; for pill for human use. By the Giant Oxie Company, 20 Willow Street, Augusta, Maine, U S A. 186,955.

"SILALL"; ointment for human use. By W. S. Brothers, 44 Wakefield Road, Dewsbury. 187,406.

Pharmaceutical Society of Great Britain.

NORTH BRITISH BRANCH.

THE annual meeting was held at 36 York Place, Edinburgh, on Friday, June 21—Mr. J. Laidlaw Ewing, Chairman, presiding. There was a small attendance.

In the course of his remarks from the chair, Mr. EWING stated that this year shows an increase of fourteen voters, there being 383 members and business-associates of the Society in Scotland as compared with 369 last year at this time. He then spoke of the leading features in the work of the year, such as the extension of the Edinburgh house, the reconstitution of the Boards of Examiners, and legal work, in the last-mentioned matter referring also to what has been done at this side of the Border. Having spoken of a slight increase of Scotch support to the Benevolent Fund, Mr. Ewing referred to the retirement of Mr. Kinninmont, of Glasgow, who was a genial and active member of the Executive. They hoped he might be long spared to enjoy the remainder of his years. He was glad to be able to say that they would have the services on the Executive of a gentleman who, curiously enough, represented the same district as that from which Mr. Kinninmont came. The resolution that members of the Examining Board should not be members of the Executive had led to the retirement of Mr. Sutherland. In him the district of Dumfries had lost a valuable representative. He regretted to say they had not been able to get another to represent that district. Reference was then made to the death of Mr. Seath, Dunfermline, a most estimable man and a typical representative of pharmacy. He was for a long time a local secretary, one of the earliest members of the Society in Scotland, and one of the members of the old Council of the North British Branch. They had lost another, though not a pharmacist—Dr. Hugh Cleghorn, St. Andrews, an honorary member of the Society. He was one of the most frequent visitors to their rooms; he took a great interest in the Society, and was always ready to assist them in any way. He had an intimate knowledge of Indian botany, which was always at their disposal. They had few honorary members in Scotland whom they would miss more than Dr. Cleghorn. They had also lost another local secretary, Mr. Thomas Finlayson, of Leith, and he thought they should sympathically refer to him on this occasion.

THE NEW EXECUTIVE.

Mr. J. RUTHERFORD HILL then read the report of the election of the Executive. It stated that 74 members and associates in business had been nominated, of whom 28 signified their willingness to act. The scrutineers met on June 20, and examined the voting-papers, with the result that of the 383 voting-papers issued 233 were returned. One was informal, so that there were 232 votes to be recorded. The following was the result of the voting:—

1. James Laidlaw Ewing, 52 North Bridge Edinburgh (201)
2. William Ramsay Kermath, 1 North Bell Street, St. Andrews (190)
3. Charles Kerr, 56 Nethergate, Dundee (188)
4. William Little Currie 223 Byres Road, Dowanhill, Glasgow (187)
5. Alexander Straehan, 138 Rosemonnt Place, Aberdeen (180)
6. Claude Francis Henry, 1 Brandon Terrace, Edinburgh (177)
7. Alexander Davidson, 172 High Street, Montrose (176)
8. John Nesbit, 162 High Street, Portobello (169)
9. George Lunan, 20 Queensferry Street, Edinburgh (167)
10. James Miller Hardie, 68 High Street, Dundee (166)
11. Robert McAdam, 34 Virginia Street, Glasgow (152)
12. John Bowman, 3 Duke Street, Leith (144)
13. John Hutchinson Fisher, 66 High Street, Dunfermline (143)
14. George Coull, B.Sc., 17 Smith's Place, Leith Walk, Edinburgh (141)
15. Adam Gibson, East Thistle Street Lane, Edinburgh (134)
16. James Paterson, 15 Regent Quay, Aberdeen (128)
17. James Moir, 447 Victoria Road, Crosshill, Glasgow (94)

The following were the unsuccessful candidates:—

Robert Thomas McCowan, 8 High Street, Paisley (91)
David McLaren, 42 South Clerk Street, Edinburgh (88)
Robert Aitken, 73 Prince's Street, Edinburgh (85)
John Lothian, West Thistle Street Lane, Edinburgh (84)
George Emmet Broomhead, 441 Union Street, Aberdeen (71)
John Tocher, 36 High Street, Dunfermline (70)
Alexander Garvie, 23 Bernard Street, Leith (57)
Thomas Symington, Wardie House, Boswall Road, Edinburgh (40)
John Brown, 5 Alvanley Terrace, Edinburgh (32)
William Charles Baker, 13 Dundas Street, Edinburgh (25)
James Grant Anderson, 8 Maitland Street, Newhaven, Edinburgh (23)

Mr. MURDOCH (Falkirk) moved the adoption of the report, which was seconded by Mr. MCGIBBON (Edinburgh), and adopted.

The CHAIRMAN then declared that the first 17 gentlemen named on the above list, together with the President (Mr. Michael Carteighe), the Vice-President (Mr. John Harrison), and Messrs. John Johnston (Aberdeen) and David Storrar (Kirkcaldy), as *ex-officio* members, would form the Executive for 1895-96. He moved a vote of thanks to the scrutineers, which was carried.

Mr. COULL (Edinburgh) moved a vote of thanks to the retiring Executive, which was agreed to.

THE SMALL ATTENDANCE.

Mr. LUNAN suggested that if they held this meeting in the evening instead of at mid-day they might get a larger attendance.

Mr. NESBIT pointed out that the matter had been considered and the hour fixed to suit country members. If it was held later they would have to stay in Edinburgh all night, and if it was earlier many of the country members would not reach Edinburgh in time.

The CHAIRMAN said the Executive would carefully reconsider the matter.

SURGEONS' OPEN SHOPS.

Mr. MURDOCH asked if nothing was to be done with surgeons keeping open shop with unqualified assistants. There had been one or two cases tried at Glasgow, but the doctors had not taken fright yet.

The CHAIRMAN said there were several cases reported and under consideration at the present time, and if any member heard of others they should report them to the Registrar.

TOUTING FOR SUBSCRIBERS.

Mr. LUNAN raised the question of the enlargement of the *Pharmaceutical Journal*, and said he had always believed that the improvement of the journal would increase the membership. Of 1,100 chemists in business in Scotland, only about 400, or 33 per cent., were members of the Society, and until they had at least half of the chemists in business in their Society they would not be able to go to Parliament with any Bill with the weight behind it which a larger membership would give. He suggested that after the enlargement of the journal it should be distributed gratis to members of the trade throughout Scotland for a month or two, so that they might see its character and be induced to become members.

Mr. MURDOCH said THE CHEMIST AND DRUGGIST was a more popular paper, and that those who were not on the Society's register invariably got their pharmaceutical news through that medium.

Mr. NESBIT expressed his surprise that with the many benefits which membership of the Society gave—including the use of the library, from which members could get books sent, and also the use of the museum—more had not joined.

The question was put who was to pay for the gratis issue proposed, and the subject dropped without anything further being said.

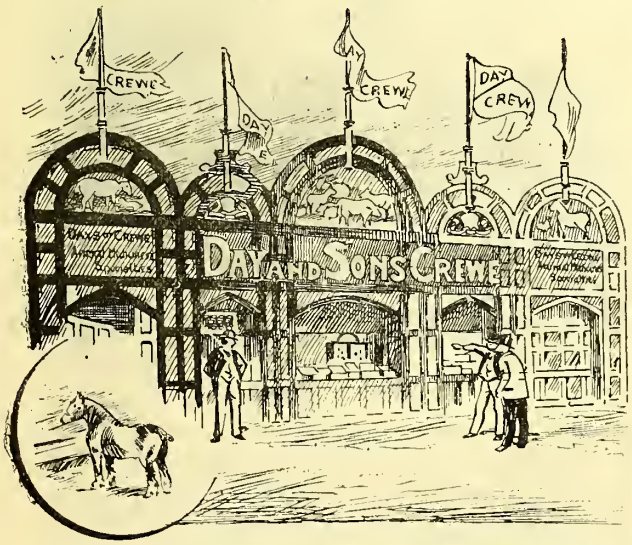
A vote of thanks to the Chairman terminated the meeting.

TOBACCO-SMOKE AS A MICROBICIDE.—Professor Tassinari has come to the following conclusions as to the efficacy of tobacco as a destroyer of bacteria:—1. The smoke of the Cavour, Virginie, and Toscan cigars and black and short cut tobacco possesses a very great bacteriological power, especially against the bacillus of Asiatic cholera. 2. This action as a microbicide seems to be, according to all probability, due to the empyreumatic products of the nicotine. 3. In cholera and typhus epidemics the use of tobacco may be useful rather than injurious. 4. Tobacco-smoke deserves careful consideration in regard to the hygiene of the mouth, as a preventive of diseases.

THE great event of the week in the agricultural world has been the fifty-sixth annual exhibition of live stock, poultry, farm-produce, and agricultural implements at Darlington, under the auspices of the Royal Agricultural Society of England. The space and number of exhibits on the present occasion fell somewhat short of the area occupied at Cambridge last year; but, on the whole, the show may be said to have been a very successful one. As the exhibition comprised a considerable number of entries of interest to chemists, especially to those engaged in business in agricultural districts, we again, according to custom, give a brief description of the principal stands of pharmaceutical interest.

VETERINARY MEDICINES.

The familiar dark-green stand of DAY & SONS, of Crewe, the well-known manufacturers of horse and cattle remedies, is one of the most prominent features of the show. It is placed close by the entrance to the left, and contains an impressive variety of goods. It occupies 50 feet of frontage



and reflects great credit upon its designers and architects and upon the painter who decorated the dome-panels with scenes of animal life. The only new preparation pointed out to me was the "Komos" condition-powder for horses, which is put up in boxes of three different sizes, to retail respectively at 6*s.*, 11*s.*, and 20*s.* each. A halfpennyworth of the powder is enough for a dose in ordinary circumstances. "Day's Annual" is almost as profusely illustrated as "Phil May's Annual," and contains a profusion of useful hints for farmers and stockbreeders. Among the medicine-chests is one newly arranged for the use of farmers, at 2*l.* 4*s.* retail. The "Purified Driffield Oils," red and black drinks, and "Chloral Opiate" maintain their ancient reputation among the medicines of the firm.

"Why 'Canadian' pig-powders?" I asked Mr STEPHEN WILLSON, of Peterborough, when that gentleman showed me his speciality. "Because, over twenty years ago I received

the recipe from a relative of mine in Canada, one of the most successful pig-breeders in that country, who sent me a copy of the original recipe that had served him so well."

Mr. Willson's stand has been familiar at the Royal Exhibition for the last ten years, and if the "pig that went to market" is not yet known to all visitors it is not for want of striking leaflets in which the praises of the powders are sung. The "curd-producer," another of Mr. Willson's specialities, is a dry powder, prepared by percolation from the fresh stomach of the calf. A small photograph at the stand shows a "tower" erected of 3,009 empty pig powder boxes at a previous Royal Show at Peterborough, an experiment of which the managers of the Exhibition will not permit the repetition.

THOMAS PETTIFER & Co, of Banbury, exhibit their veterinary remedies and stock-keeper's medicine chests. There are two Pettifers in the field, for turned with its back to its rival is the booth of STEPHEN PETTIFER & SON, of Malmesbury, who have a very similar show of goods, including the "pulmonic" specific for husk, hoose, or host in cattle and calves, the "herbal-tonic," and the "Wiltshire" pig powders.

FRANCIS CUPISS, of Diss, Norfolk, shows three varieties of the "Constitution Balls" with which his name has been associated for over half-a-century. There are the horse-balls, at once a cure and a prophylactic; those for neat cattle useful in the fattening of bullocks and against scouring in calves; and the constitution balls for sheep.

HENRI'S PATENT FOOD COMPANY, of Hull, have a good show of "Arabian" medicated horse-condition powders, an article which has now been forty years on the market. Sacks of cattle foods are also shown.

THE LONDON AND COUNTIES CATTLE MEDICINE COMPANY, of Newcastle-on-Tyne, exhibit their "Vivific" remedies and sanative embrocation. The company is only five years old, but as, according to their statements, "Vivific" is "worth a king's ransom" they will no doubt make their way rapidly. The company distribute a handy book of instructions for the use of their preparations.

DAY, SON & HEWITT, 22 Dorset Street, W., also occupy a very prominent and tastefully arranged stand, containing a big assortment of their numerous specialities. The "Original" stockbreeders' medicine-chests and the "Key to Farriery," a veterinary handbook published by the firm, are prominent articles of display. The firm's veterinary disinfectant-powder is now put up in boxes with perforated

top, covered by a detachable paper label. The "Kossolian" blood-salt, a blood purifier and enricher, which is very popular with horse and cattle dealers, and was formerly sold only in bottles, is now for the first time exhibited in neat yellow tins containing a dozen packets each. Kossolian, a substance of the appearance of Dalmatian insect-powder, should be sprinkled among the animals' food or administered in gruel. A small measure is enclosed in each tin.

ANIMAL FOODS AND SPICES.

R. CALVERT & SONS, Seminary Street, Leeds, have a small exhibit of calf-meals, horse and cattle condiments, and game-spice. Close to them are EVANS & Co, 6 and 7 Canning Place, Liverpool, who show "Excelsior" hound meal and dog-biscuits, meat-and-fish dog and puppy cakes, and other canine delicacies. Ground oyster-shells for poultry is also a speciality of this firm. "Calvine," a nutritious calf-meal, which should be given mixed with water and milk, is also shown at this stand, although it is not made by this company, but by the "Calvine Company," of 29 Mark Lane, E C. From "Calvine" to "Bovine" is but a step in the evolution of horned cattle; hence BOVINE (LIMITED), of Arundel Street, W.C., claim attention in the same category. Twopence worth of bovine a day mixed with the ordinary food of horses, sheep, cattle, or pigs will, it is said, cause the animals to thrive surprisingly. The firm go in for "smart" advertising by means of showcards.

The exhibit of ROGER ERRINGTON, of Sunderland, rivals in size some of the best shows in the place, although the arrangement cannot be said to be as attractive. The stand is draped in red, and the chief objects shown on it are sacks of vegetable cattle-spice, which is the leading article of manufacture of the firm. Hay-seasoning spice, for rendering damaged hay palatable, is also an article of importance with the firm. Ground oyster-shells, bone meal and similar delicacies for poultry are likewise shown.

TYLER & Co., 48 Bartholomew Street, Birmingham, also deserve mention among the cattle-spice manufacturers. Their specialities are "Non-such" spice, a vegetable preparation which should be administered in ½-pint doses to cattle, sheep, and pigs, and be mixed with the usual food of the patients; calf-rearing meal; "amalgamated dog-meal," a mixture of meat with oatmeal which has been on the market for thirty-two years; and duckling-meal, especially recommended for bringing up ducklings for the early markets.

SPRATTS' PATENT (LIMITED), Henry Street, Bermondsey, S.E., are represented in their usual manner—that is to say, by a very large and nicely-arranged stand, at which a huge variety of goods is displayed with much ingenuity and taste; The firm are not exhibiting any absolutely new preparations but they have lately made several alterations in the manner of putting up their goods: thus, the small cod-liver-oil cakes, pet and puppy cakes are now packed in tins to retail at a shilling, which renders them much handier for sale over the counter by chemists. The cod-liver-oil biscuits are a particular favourite trade-article with chemists. A change has also been made in the manner of putting up Spratts'

dog-soap, which is now obtainable in cardboard boxes holding a quarter-dozen. The old square shape of the tablets has been altered to an oblong, and the name is stamped right through the cake in perforated letters To call attention to the whole of Spratts' specialities would be impossible here—their mere enumeration in the catalogue occupies a page and a half of that publication—but it may safely be said that there is no curable ill to which dogs or poultry are heirs which is not checkmated by one of Spratts' preparations, and no delicacy known to be appreciated by the canine or

feathered world which Spratts do not provide in a palatable shape. A bright corner of Spratts' stand is devoted to bird-seed in nicely-labelled packets to retail from a penny upwards. The popularity of Spratts' little handbooks on poultry-rearing and the treatment of diseases in dogs is testified by the number of editions through which those useful little guide-books have already run.

EDWIN MACKINDER, of Lincoln, has a modest show of his "Original" Lincoln lamb-food and porridge meal for calves, a milk-substitute in rearing. Although Mr Mackinder does not make much of a show, he deserves credit for distributing at his stand a very interesting little pamphlet on the importance of diet in stock-management.

It is scarcely possible to do more than mention the names of the firms who exhibit feeding-cakes, such as cotton, linseed, ground-nut, and cocoa-nut cakes for cattle. Their exhibits do not make very much of a show, mostly consisting only of grey and yellow cakes of circular or oblong form. Among these firms we may mention the DRIFFIELD PURE LINSEED, COTTON, AND UNION CAKE COMPANY (LIMITED), of Driffield, Yorkshire; CALTHROP BROTHERS (LIMITED), of Liverpool; the WATERLOO MILLS CAKE AND WAREHOUSING COMPANY (LIMITED), of Hull; RICHARD SILCOCK, of Poulton le-Fylde, Lancashire; CHAMBERS & CO., of Thorne; the PHŒNIX OIL MILL COMPANY (LIMITED), of 3 Rumford Street, Liverpool; E. E KEIGHLEY, of Hull; the VESTA CAKE COMPANY, of Liverpool; SAUNDERS, JONES & CO., of Liverpool.

The OLD CALABAR BISCUIT COMPANY (LIMITED), Liverpool, have a very large stand filled with poultry-meal, dog-biscuits, and other feeding-stuffs Their patent meat dog-biscuits with vegetables, I was informed, were lately selected by the Lords Commissioners of the Admiralty for feeding the dogs required for the recent Arctic expedition; though I do not know what expedition of that kind was recently fitted out by the Lords Commissioners in question.

JOSEPH THORLEY, Thornhill Bridge, King's Cross, N., occupies a considerable amount of space with a nice exhibit of cattle-food, hay-spice, and other preparations of the same class. Mr. Thorley has two happily-named preparations—viz, "ovum," a poultry and game spice, which is said to have a wonderful effect as an egg-producer, and "lactifer," a meal for calves designed as a milk-substitute. At a time when newly-laid eggs are scarce it is pleasant to hear that one

packet of "ovum" mixed daily with the food of twelve hens will cause them hensforward to lay eggs "in abundance" all the year round. Not only that, but it also "fortifies the constitution" of the birds, instead of driving them, as an uninitiated person might suppose, prematurely exhausted to an early grave. To the humane mind it is a pleasure to think that thousands of calves are at this moment reared on "lactifer" into healthy animals with the prospect of a long and peaceful career before they end in beef, and are thereby, to use Mr. Thorley's own words, "saved wholesale from the butcher's knife, which makes veal of them at such an early age." We veal the greatest sympathy with "lactifer," and wish it a long and prosperous career. The pictures of prize pigs, cattle, and horses fed on Mr. Thorley's spice, which decorate the stand, are nicely executed.

DISINFECTANTS, WEED-KILLERS, AND SHEEP-DIPS.

HENRY ELLISON, F.C.S., of Cleckheaton, shows only two kinds of goods, for which reason a small stand suffices him. Oils for lubricating agricultural-machinery are one of his specialities; the other is Ellison's "all round dip," which may be employed in freeing from vermin animals of all kinds, from horses to poultry. The dip is non-poisonous, and is put up in small packets and drums. Mr. Ellison has adopted a rather effective advertising-device of tin tokens in the shape of sheep, bearing his name and firm stamped upon them.

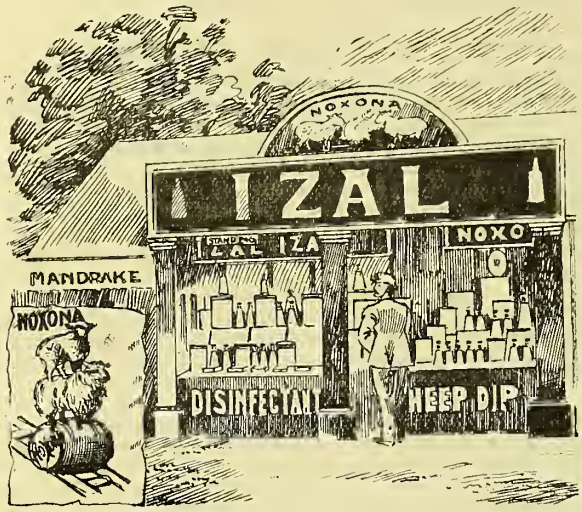
Of the "Climax" liquid sheep-dip and cattle-dressing, prepared by THE BOUNDARY CHEMICAL COMPANY (LIMITED), Liverpool, little more can be said than that it is recommended by a long list of testimonials, British and foreign, letters from Wales and Oxford figuring among the last named.

Disinfectants are represented by the usual firms of exhibitors. QUIBELL BROTHERS, of Newark-on-Trent, occupy a nicely-decorated corner stand in a good position. They show, in the first place, their liquid and solid sheep-dips, the latter both in the form of an arsenical powder, soluble in cold water, and as a saponaceous paste. The paste has of late years been superseded to some extent by the more convenient powder form. The poisonous dips are now, of course, sold exclusively through the agency of pharmacists; but a considerable field for chemists in agricultural districts is still open in the sale of calf-meals and lamb-

foods, of which Quibell Brothers also make a speciality. The lamb-food business, however, I was told, has been cut so close lately that there is hardly any profit in it. Quibell's, for instance, is now sold at 6*l.* per ton, and the only reason why the trade can still be carried on is that the article goes in quantities of from 4 to 10 tons at the time. Calf-meal, however, is still a paying article for the agricultural chemist. As a curiosity, Quibell Brothers show two fleeces of which the wool has a staple of 26 inches The Lincolnshire sheep which produced these fleeces were bred by a customer of the firm.

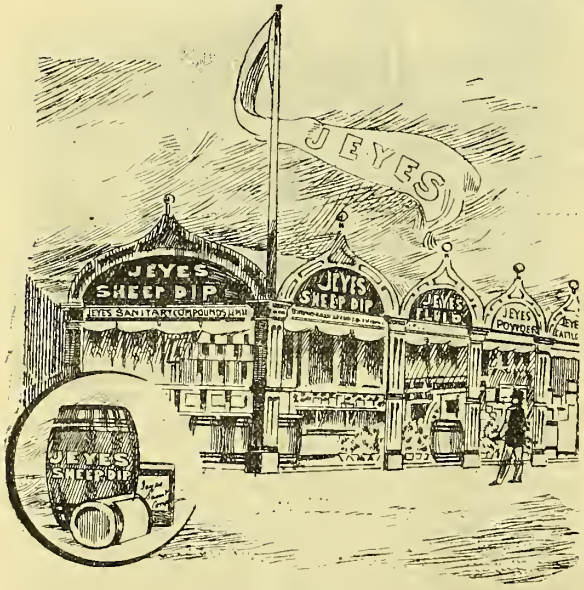
NEWTON, CHAMBERS & CO. (LIMITED), of Sheffield are one of the very few firms that appear at the show in a double capacity—as manufacturers of iron articles, such as cooking-ranges, heating-apparatus, &c., and as disinfectant makers. "Izal," the firm's non poisonous coal-tar disinfectant, is by this time known—by name, at any rate—to most chemists, and its

proprietors are neglecting no opportunity to make its name familiar to the public. At their handsome black stand, picked out in red and gold, the peculiarly-shaped green bottles and red canisters in which "Izal" is put up are ar-



ranged in excellent manner, while handsome showcards and sample packets testify to the rapidity with which a whole series of "Izal" soaps, lozenges, smelling-salts, and other articles of domestic use is growing up. "Noxona," the new non-poisonous sheep-dip, is also exhibited here. It is claimed for this dip that a single immersion in it will free a sheep from all parasites—a fact which is particularly advantageous in hilly districts, where the sheep are less easily collected than on the plains.

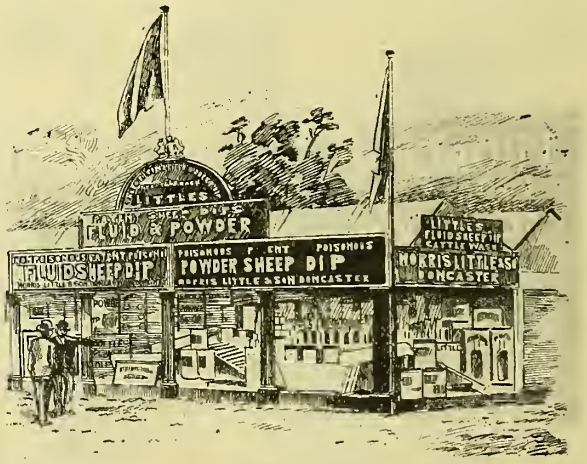
JEYES' SANITARY COMPOUNDS COMPANY (LIMITED), of 43 Cannon Street, E.C., have a real novelty in the way of sheep-dip, a fact which marks them out from all their competitors. They are showing for the first time their soluble sulphur and soluble arsenic dips, for which patent rights have been taken out, although as yet the goods are not on



the market. The preparations, which are put up in the powder form, have been specially prepared to be used in the dipping-tank along with the ordinary Jeyes' sheep-dip; but, if desired, they may be employed alone, either separately or in conjunction. The advantage claimed for the powders is that, although in the bath they are soluble, they are precipitated in exceedingly fine powder upon the coat of the sheep after the animal has left the bath, the precipitation being caused by the natural heat of the sheep's body. As the particles of the arsenic or sulphur thus precipitated are much finer than the ordinary powders of commerce less material is required, and it is claimed, further, that the danger of the powder being washed out by rain and soaking into the pasturage, to the possible danger of the sheep, is reduced to a minimum. Jeyes' exhibit occupies its customary large space; it is neat, and well-arranged, and there is no overcrowding of exhibits. The centre is occupied by a Blake's patent dipping-apparatus, an annual feature of the exhibit. Another nice stand, close beside the one just mentioned, is that of W. A. HOPE & SONS, Limehouse, E. It is draped in deep blue, and below a row of the familiar pictures of sheep, horses, and cattle is displayed a rich variety of the firm's specialities in the shape of cattle-spices, sheep-dips, disinfectants, cart-greases, and cattle-remedies, "lactina" calf-food and "restorine," a botanic flavourer, being prominent among the latter.

NESS & CO., of Darlington, as befits a local firm, make a good show with their thymo-cresol preparations and sheep-dips. This firm's stand is a particularly neat one, the blue tins of dip standing out well on the white oil-cloth covering the structure. The habit of exhibiting fleeces of sheep treated with certain dips is also observed by this firm, who show two Tasmanian fleeces of this kind—the one unwashed, the other cleaned and prepared in England. A special feature of Ness's poisonous powder-dip is that it gives a perfectly neutral solution with water, a considerable advantage when it is remembered that free alkali is liable to injure the wool. The firm do a big export trade in their dips, notably to South America. Apart from the value of the preparations, the stand of Messrs. Ness & Co. struck me as one of the most tastefully arranged in the show, and they may certainly be congratulated upon the nice way in which they get their circulars and leaflets printed.

MORRIS, LITTLE & SON, of Doncaster, have a big stand, at which the principle features are Little's patent fluid and powder dips, which have been on the market for very many years. "In fact," said the gentleman in charge of the stand, "I believe we were the first people in the wide, wide world to put up a non-poisonous fluid-dip. That was in 1876. Paste-dips, mind you, existed in numbers before that year, but the fluid-dip was a great and real advance upon these. A dozen packets of our powder, costing 10*s.*, will dip 300 sheep; a 7*s.* 6*d.* gallon of



the fluid-dip is enough for 200." Like most other sheep dip makers, Morris Little & Co. show a dipping-apparatus. Theirs, however, is especially designed for use by owners of small flocks of from 50 to 200 animals. It only costs 3*l.* 15*s.*, and we are assured that there is practically no profit on the sale. Little's "phenyle" disinfectants and soaps are comparatively new preparations, of which the sale is effected through the intervention of chemists. The firm, besides having a manufactory of their own in New York, own a branch establishment in Melbourne, which is the centre of their great Australian trade.

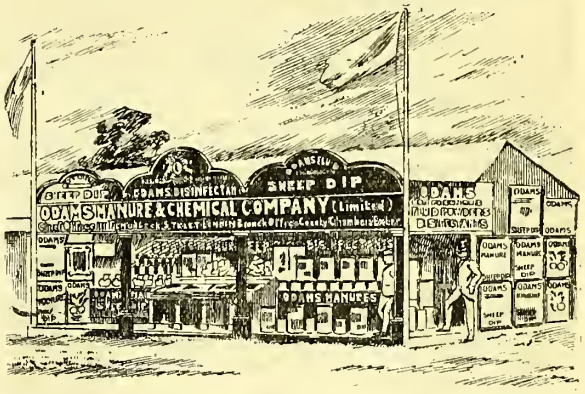
When TOMLINSON & HAYWARD, of Lincoln, introduced

their "Eureka" weed-killer two years ago, they paid particular attention to the careful packing of the preparation. The novelty in the style of putting up the weed-killer was much appreciated by retailers, and the manufacturers now inform us that, after two years' trial, they have not heard of a single accident in connection with the transportation, storing or handling of the article, notwithstanding that it is dealt in by chemists all over the country. This is certainly a strong evidence in favour of the "Eureka." The preparation is displayed prominently at the firm's neat stand, where attention is further called to the sulphur-paste dip, recommended specially because, unlike many other sulphur dips, it does not make the wool harsh or dry. A number of other preparations are also exhibited, including Hayward's foot-rot ointment, cattle-oils, and butter-powder. Green and yellow are the leading tones of the Tomlinson & Hayward stand, one side of which is occupied by a large "stand-up" sheep-dipping apparatus for dipping a flock of from 300 to 500 sheep a day.

Among the sheep-dips should also be mentioned the saponaceous and non-poisonous liquid dips of JOSEPH BENTLEY, Barrow-on-Humber, which are shown at a small but neat stand. Mr. Bentley further shows liquid and powdered weed-destroyers, as well as various game foods and cattle remedies.

STRAWSONS (LIMITED), 77 Queen Victoria Street, have a fair exhibit of their potato-blight prevention remedy, known as "Strawsonite," with various machines for applying it, and other insect-pest destroying preparations manufactured by them.

One of the most prominent exhibits is a huge stand belonging to ODAMS' MANURE AND CHEMICAL COMPANY (LIMITED), of 116 Fenchurch Street, E.C. The greater part of the stand is given up to an interesting exhibit of phosphates from many parts of the world. At one place we notice a specimen of the green Canadian phosphate, at another the brown phosphate from the West Indian Island of Aruba. Both contain over 80 per cent. of phosphate of lime. "River Rock" and "Land Rock" are names for South Carolinan phosphates, the former of which is obtained by dredging the river-beds of that State. Carolinan phosphates are among the poorest of their kind, "River Rock" containing only about 58, "Land Rock" about 56 per cent. of phosphate of lime. The grey phosphates from Curaçao and the little island of Sombrero, on the other hand, yield as much as 86 and 80 per cent. respectively. A curious phosphate, analysing about 70 per cent., comes from the Russian province of Todolia. It is in the shape of heavy black balls, from 3 to 6 inches in diameter. France, Britain, and a few other parts of Europe also yield phosphates, but in many instances they are hardly worth mining. A little further along are shown one or two fine specimens of Spanish sulphur ore (pyrites) employed in the manufacture of sulphuric acid, and containing about 48 per cent. of sulphur. Vitriolised bones, ground phosphates, anhydrous blood (containing 16 per cent. of ammonia), and other manuring-substances make up the remainder of the show, and emit a somewhat unpleasant odour in the hot June sun.



The company are proprietors of "Odamine" disinfectant, a non-poisonous preparation which, in its neatly-labelled bottles, will form an ornament on any chemist's counter. Fluid and powder dips for sheep are also among the firm's specialities.

FLETCHER, BROTHERS & CO., Grimsby, have a fine show of sheep-dips and disinfecting-fluids. Their poisonous fluid and paste dips are easily soluble in cold water. The powder-dip, also a poisonous preparation, is particularly effective, a 1s packet being sufficient to dip twenty sheep. Fletcher's poisonous weed-killer and their fly-powder are also prominently shown at this stand.

APPARATUS AND MACHINERY.

JACOB BARSTOW & SONS, of Ferrybridge, Yorkshire, show a useful natural stone and carbon filter, in which the liquid requiring filtration passes through the porous stone bottom of the receptacle and a layer of carbon, on either side of which is an air-tube communicating with the outer air. In the centre of their case Messrs. Barstow show thirty-two medals received by them at various exhibitions.

Another excellent exhibit of filters is made by the FULHAM POTTERY AND CHEAVIN FILTER COMPANY (LIMITED), Fulham, S.W., whose manufactures we have before now had the opportunity of commenting upon. Messrs. W. B. Fordham & Sons (Limited) are the agents for these filters.

E. S. HINDLEY, Bourton, Dorset, has a large exhibit in the machinery section, where he shows small vertical and horizontal engines, which would no doubt be very useful to wholesale and manufacturing chemists. The only new piece of machinery shown by the firm, however, is a small continuous current dynamo of three units, with a brush-holder specially designed to prevent sparking and consequent wear and tear. Another extensive machinery exhibit is that of CROSSLEY BROTHERS (LIMITED), of Manchester, the manufacturers of the well-known "Otto" gas engine. Several of these engines, from $\frac{1}{2}$ up to 7-horse power, are on show, but the chief feature of the exhibit is a specimen of a portable oil-engine of 7-horse power nominal. This engine is capable of giving 11-horse power actual for a consumption of $\frac{3}{4}$ pint of petroleum per actual horse power per hour. It is self-contained, and carries its own water-tank, exhaust box, exhaust and air pipes, and is fitted with four travelling wheels with shafts. The working parts are similar to those in the stationary type, but the reciprocating parts are balanced by means of segmental discs fixed on the crank webs, ensuring the engine running steadily. There is automatic lubrication for all parts, and the crank-pin is fitted with new type continuous lubricator, enabling the engine to run for long periods.

J. HARRISON CARTER, of Dunstable, Beds, exhibits seven disintegrators, among which the small one (size O, costing 15l.) is specially recommended for chemists' use. Next in size to this is the OO disintegrator, suitable for drugs, leaves, roots, chemicals in crystal form, &c. From this size the "disintegrators" run upwards to the "$4\frac{1}{2}$" size, a powerful

machine with feed-intake at the back and delivery below, specially recommended for large bone-mills. It weighs 4 tons, and costs 120*l*. In addition to his disintegrators (which have now been on the market, from the date of the original patent, for about twenty years), Mr. Carter shows a four roller mill for grinding feeding-stuffs, spices, &c., a dressing-machine, and a Mellon's patent separator, which, while feeding bone and other grinding mills, mechanically separates impurities such as iron, stone, &c., from the grinding material.

The Hardy Patent Pick Company (Limited), Sheffield, exhibit their "Vibromotor," a machine with a simple mechanical motion, specially adapted for screening all kinds of materials and preventing the usual wear and tear caused by vibration. In addition to this new implement, the firm show their well-known "Devil" disintegrators, "Multiple" grinders, and "Magnetic" separators in various sizes.

The Central Cyclone Company (Limited), 9–11 Fenchurch Avenue, E.C., exhibit a number of their "Cyclone" disintegrators and pulverisers for grinding and grading corn and grain and reducing paint-materials, drugs, and chemicals to unpalpable powder.

Salt.

The Salt Union (Limited), Winsford, Cheshire, are exhibiting at the "Royal" for the first time this year. The Union, as is generally known, have control of the bulk of the salt-mines in this country, and finding the mere wholesale selling of refined salt too narrow a field for their activity, the directors are now putting up a number of salt-preparations in packets or small bulk and offering these for sale through chemists and other suitable middlemen. To one of these preparations, which is shown at their neat stand at Darlington, they have given the punning name of "Saltunia." It is a brine-bath salt, and is, we notice, recommended as a "preventive against rheumatism," a description which is not unlikely to pass unchallenged on an unstamped label should it meet the eye of Somerset House. As "Saltunia" is put up in nice cardboard packets and offered for sale by the largest owners of salt-deposits in England, chemists might do worse than write to Winsford for terms. A prominent feature is also made at the stand of salt-preparations for the stable, and the question is asked in a leaflet, probably written by the same punster who invented "Saltunia," "Why not put salt in the Stable as regularly as it is put on the Table?" Why not, indeed? Salt is cheap, horses have an "instinctive craving" for the condiment, but, alas! "they cannot ask for salt," as the leaflet-writer ingenuously observes. It will be seen from these excerpts of their literature that the Salt Union are preparing to appeal unhesitatingly to the public in colloquial language and by popular means. The gentleman in charge of the exhibit tells an interesting story of the craving of horses for salt. Down in the Union's Cheshire mines a great many horses are employed. They have stables hewn out for them in the rocks, and behind the manger are tongue-shaped holes caused by the animals' habit of putting out their tongues, so to speak, in order to revel in the delicacy. It gives them smooth and glossy coats, and so fond are they of the condiment that even when they are fed they like lumps of salt put in their manger along with the food, notwithstanding the abundance of the material around them. Life in the salt-mine seems to agree with the horses. One has lived in the mine for twenty-three years, and another, taken down when young, has prospered so greatly that it cannot now be got through the aperture through which it was lowered into the mine, and has to remain below. In a little pamphlet on "The Manifold Uses of Salt," over a hundred purposes are mentioned in which salt may be usefully applied—most of them, it is safe to say, quite unknown to the average individual. Salt statuary is handsome, though it should not be exposed to rain. The Union sent to the Chicago Fair a replica, in salt, of Bartholdi's statue of "Liberty enlightening world" in New York harbour. The Chicagoans admired this copy greatly, and have acquired it for their Permanent Art Gallery.

Nitrates.

It is a sign of the times that great organisations like the Nitrate and Salt Syndicates should step down from their austere atmosphere to appeal directly to the promiscuous consumer at exhibitions and by the distribution of popular "literature" As yet there appears to be some hesitation in the manner in which these syndicates follow the popular policy of direct appeal to the small buyer and the consumer, but no doubt this will be remedied as time goes on. I do not remember having met either of the two firms at a previous "Royal." The Nitrate Committee (3 Gracechurch Street, London, E.C.) have a small, unassuming stand, neatly draped in dark green. The central part of the background is occupied by a showcase containing a pyramid showing the progress of the consumption of nitrate of soda since 1830 The rate at which the use of the manure is increasing (it is now over a million tons a year) might lead the superficial observer to conclude that the time cannot be far distant when nitrate will become scarce, but, as a matter of fact, there is not the slightest fear of such a calamity within some centuries. The biggest customer for the article is Germany, which, in 1890, took no less than 365,000 tons; then follow France (205,000 tons in 1890), the United Kingdom (115,000 tons), the United States (105,000 tons), and little Belgium (95,000 tons), the last-named country using by far the greatest quantity in proportion to its area. The reason of the enormous consumption of nitrates on the Continent is, of course, the extension of the beetroot sugar industry there under the much-abused bounty system. In England the bulk of the nitrate seems to be used on corn-crops. Big, brownish-grey blocks of "caliche," the natural material from which the nitrate is refined, are placed beside the showcase, while photographs of oats, wheat, barley, potatoes, carrots, and other crops show the effect of the manure. Carrots and mangolds require the heaviest manuring, the average being from 2 to 4 cwt. per acre of phosphoric acid, potash, and nitrate of soda From 1 to 3 cwt., according to the character of the soil, suffices for potatoes; cereals only need from ¾ to 2 cwt. per acre. A paper on "Points in Artificial Manuring," by Dr. Bernard Dyer, F.C.S., which is distributed at the stand in pamphlet form, conveys many useful hints on the subject. As it is said, on good authority, that on the corn and mangold crops of this country alone, quite apart from consumption for flowers, fruit, and vegetables, there is room for an annual use of nitrate of soda amounting to three times the present consumption, it will be seen that there is a considerable possibility of creating a trade in this article through the medium of chemists in agricultural districts. The Nitrate Committee are not themselves sellers of nitrate, but anyone applying to the secretary will be supplied with information concerning the application of the article and with the names of firms from whom he may purchase to advantage. The buyer should insist upon a guarantee of 95-per-cent. purity, which is equal to at least 15·5 per cent. of nitrogen.

Miscellaneous.

Joshua Barrett, of "Mandrake" House, Grosvenor Road, Highbury, N., is always found at the Royal Show, where his bizarre trade-mark, representing the head of the proprietor of the remedies on the body of a drake, attracts attention from afar. Mr. Barrett at the present show sports a large blue banner with the mandrake sign and the motto, "Non est vivere, sed valere, vita." The banner was presented to Mr. Barrett by a grateful patient as a token of appreciation of the virtues of a "mandrake" medicine-chest. The "mandrake" remedies are also put up for the benefit of cattle in the shape of condiments and embrocation. The basis of the drugs seems to be mandragora-root.

J. G. & J. Pilcher & Sons (Limited), Morgan's Lane, S.E., have a bright and many-coloured stand, at which a variety of paints, varnishes, dry colours, antifriction greases, and lubricating oils are on view.

W. H. Willcox & Co., 34–36 Southwark Street, S.E., exhibit, as they generally do on this occasion, a pretty full collection of their specialities. The Penberthy Patent Injector is one of the most important of these. It is coming into general use among owners of traction-engines and agricultural engineers. Willcox patent oil-filter is another article which is obtaining much favour with users. They also show a general collection of engine-fittings of every description; india-rubber suction and delivery hose, belting, and valves. The Patent Wire-bound Suction and Delivery Hose is now used by the leading agricultural engine-owners. The stand

also contains a collection of special "Wilcox" oils, and the usual collection of market oils—namely, neatsfoot, Gallipoli, sperm, colza, &c., a special boiler-fluid for preventing incrustation in boilers, Scott's Vulcan cement, soap-powder for drilling in place of ordinary soap, white and red lead, tallow, cotton waste, sponge-cloths, and similar goods.

JOHN MILTON JONES, of Milton House, Gloucester, is not of the ancestral profession. This scion of the Miltons no longer sits

The muses' happy votary,
A-cultivatin' ev'ry kind of poetry.

He has gone into the manufacture of water-proofing composition instead, and finds it pay better, I feel sure, than his great namesake did the writing of heroics. Water-proof composition is a deal more useful than poetry, too—in fact, we could not do without it nowadays. The words of the original Milton, "England hath need of thee," might be usefully appropriated by the descendant as a motto for his specialities, and we make him a present of the suggestion. There is also the Gloucestershire specific for foot-rot in sheep.

ARNOLD & SONS, 1-3 Giltspur Street, E.C., show a large number of surgical instruments for use in veterinary practice. Brass clyster syringes and pumps for horses and cattle are prominent at their stand. In the syringes the pipe, for the sake of greater portability, is carried in the handle. Probangs, for relieving hoven cattle or animals choked by turnips or other food, are also prominent. So are marking instruments, milking-syphons, and tubes and other requisites for the farmer or cattle-breeder.

THE BLAYDON MANURE AND ALKALI COMPANY (1877) (LIMITED), to give the concern its full title, is one of the oldest artificial-manure works in the country. It was established in 1844, and is usually well represented at the Royal Shows. Such is again the case on the present occasion. The staple preparation of the company is dissolved bone in a dry and finely-pulverised condition, which they guarantee to consist solely of pure bone dissolved in acid, and containing only about 6 per cent. of moisture. Superphosphates are also manufactured by the works.

PROCTOR & RYLAND, of Carr's Lane, Birmingham, also show a large collection of prepared bones and special manures.

LANGDALE BROTHERS, agricultural chemists, of Newcastle-on-Tyne, have a good exhibit of phosphatic slags and ores, Thomas's phosphate powder, Albert's basic phosphate powder and concentrated fertilisers, Corder's fish, guano, and bone manures of various kinds. Their stand is a plain wooden affair, but the goods are well displayed, and a few boxes of grasses, clover, &c., grown by the aid of the firm's manures, impart additional interest to the exhibit. An idea of the enormous extension of the use of chemical manures is obtained from the statement by this firm that the world's consumption of phosphate-slag in the course of the last ten years may be estimated at 5,000,000 tons.

W. & H. M. GOULDING (LIMITED), of Dublin, are represented by a large stand containing specimens of their various guanos and bone-manures, set off in the centre by a large box of growing turnips and a couple of sheaves of wheat. The firm aptly quote Swift's well-known saying that he who can make two ears of corn or two blades of grass to grow upon a spot of ground where only one grew before, deserves better of mankind than the whole race of politicians put together. Chemists interested in their preparations should write for an interesting little pamphlet on "Fertilisers, and How to Use Them," published by Messrs. Goulding. It is, of course, in the form of an advertisement of the firm; but it contains a number of useful hints.

A DRUGGIST SHOOTS HIS WIFE.—Louis Hanvey, a druggist, of Atlanta, Ga., U.S.A., had been drinking all day on June 1, and his wife and daughter were trying to persuade him to go home. Suddenly he pulled out a pistol and shot his wife in the face. As she fell he fired again, the second shot going through her heart. Death was instantaneous. Hanvey is a well-known druggist in Atlanta, but his habits have been bad, and he has had domestic troubles in consequence. His wife was a very pretty little woman, and he was jealous of her. Bloodhounds were soon put on Hanvey's track, and doubtless he is in gaol by now.

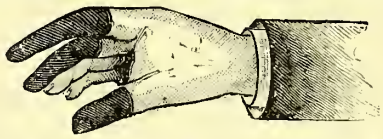
Trade Notes.

THE LIQUOR CARNIS COMPANY, in their advertisement this week, tell why chemists should not put up meat-juice from bulk.

MESSRS. MAY, ROBERTS & CO., of Clerkenwell Road, show us an advance copy of their price-list of druggists' sundries and proprietary articles to be ready on July 1. It is a bulky volume of 170 pages, and it will serve as an indication of the unceasing movement in the trade to mention that, though its predecessor was only published six months ago, the insertion of about 100 new illustrations, and alterations in about 1,000 entries are necessitated in this issue.

MR. J. W. BAKER, Bristol, who has recently purchased the section of Messrs. Clements & Co.'s business, known as their "dairy-preparations," consisting of the manufacture of annatto, butter-colouring, rennet extract, &c., submits for our inspection a sample of his rennet powder, a form of the curd-producer which is growing in popularity, because it never undergoes fermentation, and makes a firmer curd than the essence of rennet. Mr. Baker informs us that he is also packing disinfectants, and has now removed to new premises, York Street, St. Paul's, Bristol.

FINGER-COVERS.—Messrs. Marion & Co., the photographic-goods merchants, of Soho Square, W., are introducing sensitive finger-covers for use in the dark-room. The covers are made of indiarubber tissue, and we described similar



articles a few years ago for use in surgery. The novelty now is that Messrs. Marion & Co. are putting up the covers in boxes of three, to retail at 6*d*. The engraving shows how they are used.

THE CHINESE LIKE TEA-TABLOIDS.—Forwarding tea to China is very like sending coals to Newcastle, but that is what Messrs. Burroughs, Wellcome & Co. have been doing. A correspondent of the firm's in the interior of China (South Shan-si), in acknowledging two cases of tea-tabloids, says:—"All over China, north of the Yellow River, tea is comparatively little drunk, the soil and climate being unsuitable for its cultivation, and the time and difficulty encountered in transporting up from the Yang-tse Valley rendering it somewhat expensive. Boiled water and thin gruel of millet are the usual drinks of the masses, so that the tea-tabloids are greatly appreciated. The ingenuity which is displayed in the tabloid is very striking in the eyes of the Chinese as well as our own."

THE possibilities of the palatinoid method of exhibiting chemicals and medicinal substances appear to be by no means exhausted, if we may judge from the specimens which we have received this week from Messrs. Oppenheimer, Son & Co. (Limited), Worship Street, E.C. One of these is a Fehling's test bi-palatinoid, each of which contains copper and alkali equivalent to 0·00235 gramme of sugar. The copper and alkaline salts are separated in the bi-palatinoid by a septum, so that they do not mix together until the bi-palatinoid is dissolved in distilled water, which it does with agitation in the cold in 20 to 30 seconds. We have failed to get any copper reduction by boiling the plain water solution. The makers recommend the bi-palatinoid to be mixed with a portion of the urine sample, and it is obvious that in this form the test may be made both qualitative or quantitative. Considering how often erroneous conclusions are arrived at, even by medical specialists, in regard to glycosuric urine, which conclusions are generally due to bad Fehling's solution, the importance of this novelty is obvious, and chemists will find it advantageous to introduce it to the notice of their medical friends. Another specimen which we have received—thyroid-gland palatinoid—is typical of a full list of animal extract preparations which Messrs. Oppenheimer are putting up in this form. Each palatinoid contains $\frac{1}{16}$th of a gland in powder form.

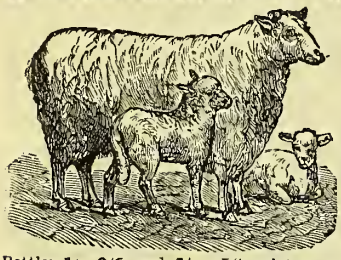
DISINFECTANTS.

WANTED, INQUIRIES AND ORDERS FOR

PEROXIDE OF HYDROGEN—Ordinary and Patent Preserved.
EUCALYPTUS OILS—various brands to samples.
SULPHUR CANDLES AND "SULPHUGATORS"—Kingzett's patents.
L.G.B. CORROSIVE SUBLIMATE PELLETS; also $HgCl_2$.
MERCURIC BACTERICIDE Kingzett's patent.
BINIODIDE OF MERCURY SOLUTION (Dr. Illingworth's formula).
"CREOCIDE" FLUIDS AND POWDERS—new Disinfectants.
CARBOLATED (20%) CREOCIDE.
CARBOLIC FLUIDS, ACID, POWDERS, AND SOAPS.
CARBOLATED CREOSOTE—ordinary and soluble.
KINGZETT'S DRAIN TESTERS.
WEED DESTROYER—in liquid form.
SHEEP DIPS—"Carbolic," "Sanitas," and "Creocide."
SANITARY CARBOLIC POWDER—in decorated tins or bulk.
CHLORIDE OF ZINC—of any gravity.
CHLORIDE OF LIME: GREEN AND BLUE COPPERAS.
MANGANATE AND PERMANGANATE OF SODA AND POTASH.
SULPHUR—refined rock, roll, and flowers.
PEPPERMINT OILS for drain testing, &c., &c.
"SANITAS"-EUCALYPTUS OIL, DISINFECTORS, AND SOAP.
"SANITAS" FLUIDS, OIL, POWDER, DISTEMPER, SOAPS, FUMIGATORS, INHALERS, DISINFECTORS, TABLETS; VETERINARY, TOILET, & OTHER PREPARATIONS & APPLIANCES.

THE SANITAS CO., LIM., Bethnal Green, LONDON, E.

LAMBING SEASON.



THE ORIGINAL
LUDDINGTON'S OILS.

These valuable Lambing Oils have been used by almost every Farmer and Shepherd in Lincolnshire and adjoining counties for upwards of a century.

Bottles 1/-, 2/6, and 5/-. Liberal terms. Attractive printed matter.
Only Address—
TOMLINSON & HAYWARD, Mint St. Works, **LINCOLN.**

TRADE MARK REGISTRATIONS.
(HOME, FOREIGN, AND COLONIAL.)
MODERATE INCLUSIVE FEES.
SEARCHES, REPORTS, DESIGNS.
T. B. BROWNE, 163 QUEEN VICTORIA ST., E.C.

HORA & CO.'S
SEIDLITZ POWDERS.

SPECIALLY PREPARED FOR CHEMISTS.

Howards' Seidlitz Powder.

ENGLISH ACID, FREE FROM LEAD.

Each Powder weighed by hand and guaranteed. Best folding, best paper. A better Powder cannot be produced.

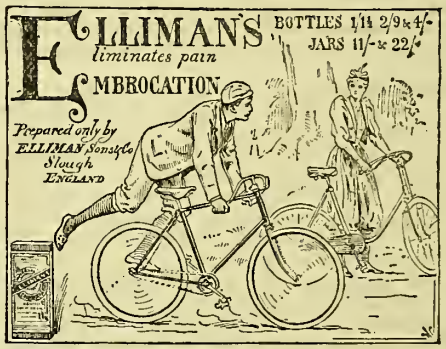
A specially Engraved Label, with Customer's name, for 6-gross lots.

In Gross Boxes, 4/3 per gross; in 1-doz. Boxes, 4/6 per gross. *Net Cash.*

47 MINORIES, LONDON.

BUYERS OF
CASCARA
AND
PREPARATIONS
SHOULD APPLY TO
JOHN MOSS & CO^Y.

GALEN WORKS, WILSON STREET, S.E.,
Who always hold a
LARGE STOCK OF MATURE BARK.



ELLIMAN'S
£5 14 0
value, assorted or not.
10 *per cent. Cash, carriage not paid.*
Agreement, Bills, Books, Show Cards.
ELLIMAN, SONS & CO.
Slough,
ENGLAND.

PATENTS, DESIGNS, & TRADE MARKS.

Searches effected through the Classified Volumes of the Society free of charge. Registrations throughout the world. Advice as to infringements preliminary to litigation. Apply—
TRADE MARK SOCIETY, LIMITED,
1 FURNIVAL STREET, E.C.

Now Ready, 4to, pp. cxxiii. and 608, cloth, price 15s.
COD-LIVER OIL
AND
CHEMISTRY

With Map and nearly 2,000 graphic Illustrations of the structures of organic compounds, including most "New Remedies."

By F. PECKEL MÖLLER, Ph.D.

A most useful book to those who study Organic Chemistry and wish to understand it.

Chemists ordering direct from the Publisher, PETER MÖLLER, 43 Snow Hill, LONDON, E.C., and sending remittance, will be allowed the full trade discount of 33⅓ per cent., delivered to any London Wholesale House for enclosure, or free by post for 6*d.* extra.

ITROSYL

Is always at hand when wanted. Takes up no space. Is as valuable to the remotest country or colonial druggist as to the West End dispenser.

Fletcher, Fletcher & Co., Holloway, London.

A NEW "BENTLEY."

THE publication of Bentley's "Manual of Botany" in a new form and by a new author is surely an event which merits the dignity of a leader. For four-and-thirty years students of pharmacy, with few exceptions, have imbibed their knowledge of the vegetable kingdom from the "Manual of Botany" which was the *magnum opus* of that most lovable of profes-

sors—the late Robert Bentley. With us all it has been a favourite through life—so much a favourite, indeed, that every other botany text-book has had an evanescent interest to us We have known that we must go elsewhere for the latest about cell theories or plant physiology, but we always come back to the good old "Bentley" for those facts which neither opinion nor research can alter. It is curious how unanimous past and present students of pharmacy are in regard to their text-books: the list of those now recommended by the School of Pharmacy is a little longer than the one of twenty years ago, but the old favourites are there still. It is a standard list which the bulk of students throughout the country adhere to more or less. Perhaps not quite half have studied botany from Bentley's "Manual," for it is a big book, and smaller works such as Bentley's "Morphological and Structural," Thomé's and Silver's works, and the small but favourite Cooke (good for revision-work, but which the mediocre student too frequently makes a text-book) have enjoyed popularity. Yet it is almost a generation since the whole of them were found, by Major students at least, to be inadequate exponents of the new, or living, school of botanists, to whom we owe that remarkable progress in the knowledge of vegetable physiology the advent of which has practically wiped out the old school of botanists. There was no man who better appreciated the new order of things than the late Professor Bentley, and he manfully struggled to graft on the new branches to the old stem of his favourite tree; even at his death, as we learn from the New Bentley, he was still attempting to bring his manual in line with modern knowledge, but it has been left to Professor Reynolds Green to complete the work. It is no disrespect to the late Professor's memory to say that his manual has barred the way to complete interest in modern botanical theories so far as pharmacy-students are concerned. His book was popular and the examiners were as fond of it as their candidates Why should the latter go elsewhere?

From the point of view of the chemist and druggist, we are pleased to note that Professor Green is retaining the principal features of the manual. The marked change is the division of the book into two volumes, and the first one, issued this week, deals with morphology and anatomy. The second will treat of classification and vegetable physiology. It will be remembered that the old manual was divided into —Book I., Organography; Book II., Systematic Botany; and Book III., Physiological Botany. The anatomical part is now separated from organography, and made Book II. The whole is published under Professor Green's name. The reason for this we cannot understand, for a fairly close comparison of Book I. with sections of the old "Manual" shows that they are substantially the same. Book II. is new. It would have been better, we think, to have credited Book I. to "Bentley, revised by Green." As this represents two thirds of the volume, the line, "Based upon the manual of the late Professor Bentley," appears to us inadequate. Book II. is Professor Green's work entirely. It makes delightful reading. Some may be able to recall the feeling which a few pages of the old manual brought on, especially when they were reading about tissue-structure. The facts were impressed upon the brain one by one, and it was the most difficult thing to piece them together to form the entity which unquestionably exists in Nature. A few superior beings never parted from Nature, therefore never appreciated the difficulty; some with microscopic practice realised it quickly; others kept the facts on a string, and let them hang there. This was the fault of the manual's educational system; it was a non-microscopic method, and had all the faults pertaining thereto. We may illustrate what we mean by quotations descriptive of the cell-nucleus:—

BENTLEY.	GREEN.
Almost all young cells contain one or more bodies called *Nuclei* or *Cytoblasts*, which are always in intimate connection with the primordial utricle, &c.	Somewhere in the cell there is always to be found a specially differentiated portion of the protoplasm known as the *nucleus*. It may lie in the centre, when it is attached to the sides by bands or threads of protoplasm, &c.

Here are the same facts, but how much clearer is Professor Green's way of putting it! And so is it throughout the whole of Book II.; it is not only an epitome of the progress in this department of knowledge, but an expression of facts by a biologist who has learnt the interdependence of the parts of the organism, and is able to convey that impression to others. We are now speaking in a general sense, for we cannot in this note criticise the volume in its parts, our object being simply to indicate what Professor Green has made of the old "Manual." We have no hesitation in saying that it will revive the popularity of "Bentley," for it is exactly suited to pharmaceutical requirements. A rather amusing slip occurs on page 282, where it is said that cellulose consists of "6 parts of carbon to 10 of hydrogen and 5 of oxygen." This is a paraphrase of $C_6H_{10}O_5$, which gives atomic weights a quite ethereal aspect. We should reckon C_6 as equal to 72 parts and so on.

PHARMACY BELOW PAR.

IN consequence mainly of complaints that the Irish Pharmaceutical qualification is not recognised for the dispensorships under the Local Government Board—*i.e.*, in the dispensaries or hospitals controlled by Guardians of certain unions and parishes in England—the President of the Board has issued a new Government order to the following effect:—

No person shall be qualified to be appointed a dispenser unless he shall be a Licentiate of the Society of Apothecaries of London, or shall hold a certificate of that Society as to his qualification to act as an assistant in compounding and dispensing medicines, or shall be a compounder of medicines duly qualified in accordance with the Regulations for the Army Medical Staff Corps, or shall have been duly registered under the Pharmacy Act, 1868, or shall have been duly registered under the Pharmacy Act (Ireland), 1875, and the Pharmacy Act (Ireland) 1875, Amendment Act, 1890, as qualified to compound medical prescriptions.

We pointed out several years ago that those holding the assistants' certificate of the Apothecaries' Society were receiving these appointments, and we have on more than one occasion strongly urged upon the Pharmaceutical Council the desirability of doing something to maintain the pay and qualifications of those holding these important appointments. Three years ago the President of the Pharmaceutical Society stated at the annual meeting that the matter was the subject of correspondence between the Society and the Local Government Board. What the result of that correspondence was we have never been informed. But we earnestly trust it is not reflected in the new order, which for the first time sanctions the appointment of ex-compounders of the Army Medical Staff Corps. We have nothing to say against this honourable class of men, some of whom before they leave the service recognise the desirability of passing the Minor examination; but chemists and druggists in Great Britain, and pharmaceutical chemists in Ireland, cannot surely regard with equanimity a Government Department's estimation of statutory pharmaceutical qualifications which places them on a level with apothecaries' assistants and army compounders. It is of the highest importance to the interests of pharmacy that Government Departments should be made to appreciate the difference between the qualifications sanctioned by the Pharmacy Acts and those minor qualifica-

tions which are not the subject of an enactment, and we feel that a timely and united protest from the Pharmaceutical Councils of Great Britain and Ireland would have some effect. That supposition is strengthened by the fact that the Irish appeal for recognition has had remarkably smart attention. It is strange how Irish pharmacists get what they want so quickly, while we on this side of the Channel have to cool our heels at the doors of Government Departments for years. Apart from these considerations it will be observed that Dublin apothecaries' assistants are not eligible for the appointments, although the London ones are; and those holding the pharmaceutical assistants' certificate, granted under the Irish Act of 1890, will also be eligible. This fact appears to indicate that the Local Government Board have not in the order acted upon any definite principle, but have simply acceded to the request to recognise Irish pharmacists, and have given effect to the recommendation from the War Office that discharged soldiers should be eligible for all available civil appointments connected with the State. We venture to think that higher considerations should apply, and if the alteration is allowed to pass without protest, the next thing will be that naval hospital dispenserships, which have hitherto called for a high standard of training will be thrown open to those who are not registered under the Pharmacy Acts.

SOMERSET HOUSE TROUBLES.

Dr. Thorpe's appointment as the chief of the Customs and Inland Revenue Laboratories has apparently not given satisfaction to those now under him, for we hear more about them through the newspapers now. Thus, the London correspondent of the *Glasgow Herald* says the respective departments

have not accorded Dr. Thorpe the welcome which he would undoubtedly have received if he had been an official acquainted with revenue law and practice. This introduction interfered with several promotions. The situation is very peculiar. The idea is to have a State chemical department, and to house the members of it in a building which it is proposed to buy or erect when opportunity offers. When this expensive project will be carried out no one knows at the Office of Works. It was, of course, necessary to make a beginning somewhere with the amalgamation; but that it was a mistake to put a man at the head of a department whose members he cannot, for what looks like an indefinite period, control, is palpable. Professor Thorpe being considered the most suitable chemist to manage a State laboratory, it would have been wiser to appoint him consulting chemist until such time as the building in which he is to perform his duties, and the staff which he is to have under him, were handed over. It does not necessarily follow that both chemical staffs will go to the new laboratory whenever it may be ready, and that is where the difficulty comes in, for the members can, if they like, continue in their own departments in some other capacity. It appears that so many have asked recently to be allowed to retire from the chemical to other branches that it has been found necessary to refuse all applications for the present, or analytical work would be nearly at a standstill.

London correspondents are the most imaginative of men, and often unreliable because they piece bits of information together, making an organic whole from them which generally happens to bear no resemblance to the real facts of the case. That some dissatisfaction should have followed Dr. Thorpe's appointment was natural; but we understand that this has by no means been general, and is now passing away. The necessity for central State laboratories is acute, for those at present in Somerset House and at the Customs are unworthy of the country and the nature of the work done in them. The sooner this matter is settled the better. We understand that it is incorrect to say that chemists have been retiring into other branches of the service. The peculiar manner in which chemists are selected—viz., from Customs or Inland Revenue officers having a taste for chemistry—has been modified to the extent of requiring successful candidates to attend the Royal College of Science two years before entering the respective laboratories, and although this course may cause a temporary and short supply in the lower branches, it will ensure for the future that every Goverment analyst is a thoroughly trained chemist.

BREAKAGES.

Judge Bacon decided, in the Bloomsbury County Court last week, that a servant is not liable for breakages, unless there is a distinct agreement to that effect in the contract of engagement. This is worth remembering, for it occasionally happens that apprentices and other employés have the value of breakages deducted from their wages, a course which is quite illegal in most cases.

TRADE-MARKS IN THE ARGENTINE.

The *London Gazette* publishes a memorandum, dated May 10, and drawn up by Mr Gastrell, British Vice-Consul at Buenos Ayres. The gist of this memorandum is that since 1890 the registration of trade-marks in the Republic has developed enormously, that the trade-mark laws of the Republic will probably soon be altered when the Commission appointed to inquire into the subject has reported, and that British merchants who export goods to the Argentine Republic should at once register any trade-marks they may possess while the laws remain in a condition so favourable to foreigners. Mr. Gastrell adds that the cost is only about 9*l*.

JOLY'S COLOUR-PHOTOGRAPHY.

The *Times* has devoted a column and a half of its space to Dr. Joly's method of photography in natural colours. The article is highly complimentary, even enthusiastic, but there is no material addition to what was published in the *C. & D.* last week, except that our contemporary states that there is every reason to believe that the commercial production of the colour-screens for the method will not be attended with any difficulties necessitating a high price. The lines are ruled with coloured inks, made up of gum and gelatine mixed in certain proportions, on a gelatine-coated plate, and all difficulties as to the durability of the pens employed and the nature of the inks have been surmounted. "That this new development will greatly increase the votaries of photography is hardly to be doubted, seeing that by this method a naturally coloured image is as readily produced as one in black and white." Here the *Times* makes the usual mistake—the image without the screen is not coloured. Dr. Joly's invention is patented.

ETHICAL ASPECTS OF PHARMACY.

Dr. Wm. Stephenson, who professes midwifery in the University of Aberdeen, has recently communicated a paper on the "Ethical Aspects of the 'Pharmacy of To-day'" to the local branch of the British Medical Association, and an abstract of it appears in last week's *B. M. J.* Dr. Stephenson is a hearty hater of specialising in pharmacy, and especially dislikes what he calls new pharmacy. We do not think that he is altogether happy in his examples. For instance, he does not think that anyone would prefer a "tea-tabloid" to a cup of tea. Perhaps the makers will send him a sample to try.

RIGIDLY AND PROPERLY WRONG.

Referring to the unhappy pair who were found drowned near Derby last Saturday, and who had taken "vermin-killer" beforehand, the *Daily Chronicle* remarks:—"This once more raises the question whether any grocer should be allowed to sell so positive a poison without restriction, while chemists are rigidly and properly prohibited from retailing poisons." Grocers are not allowed to sell the poison.

Business Changes.

PARKE'S DRUG-STORES (LIMITED) are fitting up a new shop in High Street, Kensington.

MR. T. W. JONES has purchased the chemist's business of Mr. J. Feaver, at 71 Bohemia Road, St. Leonard's-on-Sea.

MESSRS. NEVE & CO., 28 Norman Road, St. Leonard's-on-Sea, has opened a branch at Sedlescombe Road, Silverhill.

MR. H. W. TUPMAN, from Abergavenny, has purchased the chemist's business of Mr. Bury, 6 Montague Street, Worthing.

MR. J. JONES, chemist, late of King's Road, Chelsea, is opening a pharmacy at 5 Norman Terrace, Treville Road, Worthing.

MESSRS. B. G LENNON & CO. (LIMITED) have removed their London offices from 14 Bunhill Row, E.C., to 75 Leadenhall Street, E C.

MR. W. ARTHUR ROBERTS, chemist, has removed from 4 Queen's Buildings, Clonmel Street, to 31 Lower Mostyn Street, Llandudno.

MR. W. SPENCER TURNER, pharmaceutical chemist, late of Manchester, has bought a pharmacy at Willingham, Cambs, through Messrs. Berdoe & Co.

THE drug-business carried on at Colchester (Essex) by Mr. W. B. Cordley has been purchased by Mr. J. F. Marlar, chemist and druggist, Halstead.

MR. ALEXANDER CHISHOLM, chemist and druggist, 104 Addey Street, Sheffield, is removing to the growing village of Killamarsh, about eight miles from Sheffield.

MESSRS. TYPKE & KING, of 22 Laurence Pountney Lane, E.C., and the Crown Chemical-works, Mitcham and Rainham, have removed to 7 Jeffrey Square, St. Mary Axe, E C.

JOHN KNIGHT & SONS, Silvertown Soap-works and Oil-mills, have taken into partnership Mr. William Edward Duncan Knight, the son of their Mr. William Duncan Knight.

THE NORTHERN DRUG COMPANY, 448 Kingsland Road, N., have purchased the chemist's business of Mr. John Dwyer, 99 Mile End Road, E, two doors from the Paragon Music Hall.

MESSRS. MAWSON, SWAN & CO., yeast importers, Newcastle-on-Tyne, have taken their manager, Mr. Sydney Carter, into partnership. The firm now consists of Mrs. Mawson, Mr. Swan, and Mr. Carter.

MR. ALBERT N. BECK, chemist, of York Buildings, Wellington Place, Hastings, has sold his lease to the Home and Colonial Company (Limited), and removed his business to 2 Cambridge Gardens, Cambridge Road, Hastings.

MR. A. J. TAYLOR, chemist, of 29 King's Road, St Leonard's-on-Sea, has retired from business, selling his lease to the Home and Colonial Company (Limited)—Mr. Fred. Tree, chemist, of 59 King's Road, St. Leonard's-on-Sea, has purchased all the prescription-books, &c.

Chemists' Co-operative Society (Limited).

THE following is the register of shareholders in the above company as supplied to us by the secretary. It was handed to our representative with the remark that it comprised only the names of shareholders of the first partial allotment, and that there were some 60,000 more shares to be dealt with at the next board meeting. We may add that we were informed on June 18 that the additional allotment had been made by the board on that day. As the company has to pay the Trust Agency a large part of the purchase-money of such businesses as it takes over in shares, and as negotiations have been going on for some time past with the original vendors of businesses to induce them to accept shares in place of cash, the 60,000 shares thus alluded to may be assumed to be shares which it is expected to place in this way.

The Chemists' Co-operative Society (Limited) announced in its prospectus that it had acquired forty carefully-selected businesses; that it had contracted to take over thirty-six others, subject only to the statements of profits being verified, and that it had acquired, besides, five other sets of premises where businesses were shortly to be opened. To carry out this scheme the public was asked to subscribe 150,000 guineas out of the 200,000*l.* nominal capital of the company, it being proposed to allot the balance to the Trust Agency and Guarantee Company of England (Limited). One striking fact our inquiries have already elicited. The amount actually subscribed appears from the statement published below to have been 15,362 guineas, and on this subscription the company went to allotment!

It does not need an expert to point out that nothing approaching the scheme set forth in the prospectus can be carried out with the money in hand; and without presuming to offer a definite opinion on the point of company law which these circumstances raise, we cannot help thinking that any investor who subscribed to the enterprise originally proposed could show to a Court a very good reason why his money should not be used in an altogether different undertaking.

Out of the 15,362 shares allotted as detailed below, it will be noticed that 4 000, or more than a fourth of the whole, go to Mr. J. Baird, of the Carlton Club. Is this the M.P. for Glasgow, and one of the partners in the great Gartsherrie ironworks? The chairman of the company, the Hon. Mark F. Napier, M.P., who, according to the articles of association, is to be paid 250*l* a year, cautiously risks only 100 guineas; and Dr. G B Clark, M.P., Mr. James Colston, D L., Mr. W. P. Forbes (of the *Central News*), and Major Evan Rowland Jones, M.P. (also directors at 150*l.* a year), venture the same amount each; but Mr. Frank Pownall, barrister, another director, plunges to the extent of 525*l.* All honour to that gentleman for his pluck in backing his opinion so substantially! The Trust Agency is down for 800*l*, which is perhaps a part payment for some one or more businesses; and Mr. Dillon Lewis, who is understood to have planned and engineered the concern, is down for 500 shares. Mr. Jessop, of Bradford, whose name appears to have been added after the first allotment, has, we learn, joined the board of directors, and is likely, we suppose, to be the general manager.

We append the list of shareholders:—

Shares Allotted.

Name	Address	Description	No. of Shares	
			Pref.	Ord.
May 17, 1895				
Adams, H. B. ..	Schoolhouse, Ferryden, Montrose	—	25	—
Auerbach, Mrs.	25 Sloane Gardens, S.W. ..	—	100	100
Arnold, Mrs. ..	c/o J. S. Burra, Esq., Rockhanger, Ashford, Kent..	—	—	25
Baird, W. ..	Ardeer Factory, Stevenston, N.B.	—	20	—
Bull, R. V. ..	Market Place, Romford, Essex	—	—	25
Baird, J. ..	Carlton Club, Pall Mall ..	J.P.	2,000	2,000
Baker, Mrs. ..	31 Barton Street, West Kensington	—	10	—
Baxter, F. ..	2 Ardross Street, Inverness	Seedsman	50	50
Betty, E. B., Mrs.	11 St. Nicholas Park, St. Mark's Road, Bristol	Married	25	25
Beeby, R. B. ..	Gainsborough, Yorks ..	Chemist, & Secretary Guisboro' Gas Co. (Limited)	—	20

Name	Address	Description	No. of Shares Pref.	No. of Shares Ord.
Bell, James ..	9 Gideon Road, Lavender Hill, S.W.	—	—	10
Best, T. S. ..	St. Valery, Beulah Road, Tunbridge Wells	Builder	10	—
Bourne, E. H., Mrs.	Rose Villa, Lyreden Road, Tooting	Widow	—	10
Butler, M. A., Mrs.	3 Elsie Road, East Dulwich	Married	—	3
Burden, A. W. N.	The Elms, Loughborough	Architect	50	50
Brown, E. ..	4 Heath Road, Twickenham	—	10	40
Bruce, C., Rev.	Glenrinnes Manse, Dufftown	Minister	1	—
Brown, John ..	Army Medical Staff Mess, Netley, Hants	Steward	10	—
Bullock, James	26 Holland Park, W. ..	Gentleman	500	—
Bellerby, Tom..	64 Alpha Street, Seedley, Manchester	Bleacher	20	—
Clifford, H. G...	25 Wellington Street, Strand	Journalist	5	—
Clifford, E. G...	25 Wellington Street, Strand	Journalist	4	5
Clark, Rev. J...	Balgonie Manse, Markinch, Fife, N.B.	Minister	30	—
Clarke, Herbert	1 Bessemer Villa, Dover..	Chemist	4	4
Cracknell, A. J.	51 Saltram Crescent, St. Peter's Park, W.	—	—	10
Callendar, J. A.	3 Newbattle Terrace, Edinburgh	Gentleman	200	—
Cadzow, Annie	2 Skirving Street, Shawlands, Glasgow	—	100	—
Cameron, J. M.	Glenlee, Dalmuir, Scotland	M.B.	50	—
Calvert, Jean ..	The Laurels, Melrose, N.B.	—	200	100
Carey, Williams	Belvidere, Hanworth, Middlesex	—	6	—
Chaplin, F. ..	9 Rodney Place, Clifton ..	Commercial traveller	—	50
Charteris, W...	Ammisfield House, Hipperholme, near Halifax	Surgeon	50	50
Clark, H. B. ..	147 Southgate Street, Gloucester	Chemist's assistant	20	—
Clark, G. B. ..	St. Ermine's Mansions, S.W.	M.D.	—	100
Clayton, Mrs. F.	Crossley Hall, near Bilston, Staffs.	—	100	—
Colston, James, J.P., D.L.	23 Regent Terrace, Edinburgh	Printer	—	100
Cowham, W. C.	27 Eccles New Road, Salford	—	—	20
Criaghead, Miss	11 Mentone Road, Highbury		25	—
Coverdale, W. T.	29 Grove Road, Brixton ..	Merchant Clerk	—	50
Donald, A. C. ..	Manager to Craigo Gate Mills, near Montrose	—	—	25
Digby, C. A. ..	Liehning, Hawkhurst, Sussex	M.D.	100	—
Davis, J.	289 Burdett Road, E. ..	—	—	50
Darsie, George	Austruther, N.B.	—	250	250
Davies, J. A. ..	The Ferns, Brockenhurst, Hants	—	50	—
Davis, W. W. S.	1 Kyrle Street, Hereford..	Clerk	10	10
Davison, Mrs...	78 Queen's Road, Finsbury Park	—	50	—
Davison, C. N.	78 Queen's Road, Finsbury Park	Shipbroker	—	25
Davison, T. H.	78 Queen's Road, Finsbury Park	Marine Insurance Manager	—	50
Danby, T.	Croshy Lodge, St. John's Hill, New Waudsworth	—	100	—
Delany, W.	Bagnalstown, co. Carlow, Ireland	Surgeon, J.P.	—	15
De Laage Fils et Cie.	Cognac, France	Brandy Merchants	400	—
Downey, A. F.	47 Lichfield Street ..	Surgeon	5	5
Dunkley, H. ..	Darthouse, 85 Lordship Road, Stoke Newington, N.	—	50	—
Fardell, E. S. ..	37 Pepys Road, New Cross	Clerk in Holy Orders	—	50
Feudick, R.....	31 Carlton Road, Tufnell Park	—	—	100
Forbes, W. P...	5 New Bridge Street, W...	Gentleman	—	100
Francis, W.....	21 Albion Street, Bow, E.	Salesman	—	6
	1 Clarence Terrace, Regent's Park			
Fyfe, A. W.....	2 Douglas Terrace, Pollokshields, Glasgow	—	—	20
Gibbs, R. F.....	48 Stamford Street, Blackfriars ..	—	30	30
Gascoyne, Miss A. M.	17 South Eaton Place, S.W.	—	2	3
Goodall, J. E...	High Street, Mexboro, Yorks	Chemist	2	-
Grindlestone, Florence	Sunningdale, Berks ..	-	-	5
Gore, Gen. E. A.	c/o J. Newton, Boyland, 67 Westmoreland Street, Dublin	—	100	100
Hamilton, C. de Courcy	Woodville, Kew, Surrey ..	Solicitor	50	50
Hansler, H. S.	1 Wells Street, Jermyn Street, S.W.	Barrister	200	100
Harvey.. ..	74 Fore Street, Brixham, South Devon	Brewer	100	—
Harden, Mrs. E. S.	58 Gloucester Road, Bishopstown	Widow	—	50
Hart, A. P. ..	Priory House, Wellesley Road, Colchester	Banker's clerk	10	—
Harding, J. A.	Osman House, Fortis Green, N.	Physician	50	—
Hawkins, Mrs. A. B.	Wambery, Lewin Road, Streatham	—	20	20
Herbert, R. L.	65 Crouch Street, Colchester	Banker's clerk	10	—
Hoghen, E. ..	Strathmiglo, Fife, N.B. ..	—	10	—
Hopper, C. R. R.	22 Plato Road, Brixton ..	Secretary	25	25
Hunt, Miss M.	123 New Bond Street, W.	—	5	5
Isaacs, I. J. ..	76 Clyde Road, Didbury, Manchester	Merchant	10	10
James, Mrs. P. C. S.	Sandford House, Ryde, I.W.	—	15	10
Jacob-Smith ..	High House, Watton, Norfolk	—	—	50
May 28				
Jessop, J. A. ..	15 Westgate, Bradford ..	Chemist	400	100
May 17				
Jolliffe, J. M. ..	High Street, Bishop's Waltham, Hants	Solicitor's clerk	—	5
Jones, E. R. ..	Arundel Street, Strand, W.C.	Major	—	100
Joyner, W. R...	10 St. John's Villas, East Dulwich Green	H.M. Customs	—	10
James, D. R. ..	St. John's Villa, Newbury	Gentleman	—	10
Kendall, G. W.	Market Place, Bedall ..	Chemist's assistant	5	—
Kennett, W. R.	29 Rona Road, Gospel Oak	Accountant	—	10
Knapp, C. B. ..	Victoria Villa, Rathgar Road, Dublin	Major	—	20
Lance, T. W. ..	47 Boyonne Road, Balham	Gentleman	400	—
Laughton, R. H.	222 Ecclesall Road, Sheffield	Cashier	50	50
Lewis, D. ..	34 Old Broad Street, E.C.	Gentleman	400	100
Lewis & Towers	66 St. Paul Street, New North Road, N.	Glass-bottle manufrs.	10	—
Lindsay, Miss B. E.	Rectory, Ludlow	—	—	80
McBeath, J. A.	48 Kensington Gardens Square, W.	Accountant	—	50
Mabey, Miss M. E.	Sandfield Road, Thornton Heath	—	10	—
Moreton, C. H.	18 Addison Road, Plymouth	Bank manager	10	10
Murray, J. ..	196 St. Vincent Street, Glasgow	Measurer	—	200
MacDonnell, R. E.	46 Lower Baggot Street, Dublin	Doctor	—	20
Monerieff, Mrs. Flora	38 Thurloe Square Street, Kensington	—	10	20
Napier, Hon. M. F.	Great College Street, S.W.	Barrister	—	100
Naylor, A. T. Miss	Mona Lodge, The Avenue	Newspaper proprietor	10	—
Neill, J. W. ..	19 Holland Park Gardens	Late Bengal Civil Service	25	25
Oglesby, W. ..	High Street, Harrow ..	Linendraper	—	50
Overed, J. D. ..	Blofield, Norfolk	—	200	—
O'Callaghan, J. J.	Dunmanway, co. Cork ..	Surgeon	100	100
Page, Miss M. S.	9 Wellington Square, Knightsbridge	—	—	3
Pinnington, W.	Church School, Tyldesley, Manchester	Schoolmaster	10	10
Piper, Charles	7 Holborn Circus	Buyer ..	25	—
Pecorini, A. ..	98 New Oxford Street ..	Restaurant Keeper	—	50
Powuall, Frank	42 Cuslow Square	Barrister	—	500
Price, Mrs. G...	32 Shaftesbury Road, Preston, Brighton	—	120	-
Rausom, W. ..	Fairfield, Hitchin	J.P. ..	20	—
Remnant, F. G.	1 Gratitute Place, High Street, Wasterham	Solicitor's Clerk	—	4
Rushforth, W. B.	Park Road, Peterborough	Commercial traveller	- -	20
Russell & Leonard	22 Charing Cross, Whitehall	Electrical engineers	48	—
Ruff, R. P. ..	32 Worfield Street, Battersea	Police sergeant	—	10
Riley, T. ..	51 Grosvenor Terrace, Harrogate	Merchant	150	
Roberts, E. J...	7 Bersham Road, Wrexham, North Wales	Railway accountant	—	50

Name	Address	Description	No. of Shares	
			Pref.	Ord.
Scofield, Fred.	296 Battersea Park Road, S.W.	Draper ..	—	5
Savage, W. ..	114 Shirebrook Road, Sheffield	Banker's clerk	—	25
Skinner, H. ..	13 The Knoll, Beckenham, Kent	Gentleman	25	—
Simson, J. A. ..	9 Eton Terrace, Edinburgh	Esquire ..	100	—
Sharland, W. H.	Addiscombe Lodge, Teignmouth, Devon	Gentleman	5	5
Smith, W. W. ..	51 Dangan Road, Wanstead	Cashier	10	5
Smith, H. E. ..	222 South Norwood Hill, S.E.	Gentleman	11	—
Sparrow, J. B.	Algarkirk Hall, Boston, Lincs.	Rector	500	—
Stewart, D. ..	44 New Bridge Street, E.C.	—	50	—
Stevenson, W. B.	The Manse, Athelstaneford, N.B.	Clergyman	—	200
Thomas, H. ..	Meneage Street, Helston, Cornwall	Draper	—	100
Tate, L. G. ..	54 Hill Rise, Richmond, Surrey	Electrical engineer	20	—
Trust Agency and Guarantee Company of England (Limited)	34 Old Broad Street, E.C.	—	500	300
Tdzumich, L. ..	373 New Cross Road, S.E.	Provision dealer	—	25
Turner, J. C. ..	Anglesea Lodge, Ryde, Isle of Wight.	Clerk in holy orders	4	4
Turner, J. H. ..	Idel Lane, Bradford ..	—	20	20
Turner, A. S. ..	Palace House, Beaulieu, Southampton	Footman	—	5
Weller, H. ..	17 High Street, Croydon..	—	—	40
Wheeler, J. F. ..	Bethams Cottage, Westerham	Solicitor's clerk	—	4
Wood, G. C. ..	Sadis Cottage, King's Mills Road, Inverness	—	—	25
Wood, Mrs. F. E.	156 Shirland Road, Paddington	—	3	—
Wood, George..	35 Pyenest Street, Hanley, Staff.	Potters-mould maker	20	15
Williams, G. J.	Gwaun House, Fishguard, R.S.O., Pembs.	Surgeon	3	3
Wills, J. R. ..	Palace House, Beaulieu, Southampton	—	5	5
Wynter, H. B. ..	Belle Ville, Alphineton, near Exeter	M.D.	50	50
Young, A. M. ..	Rose Street, Long Acre	Manufacturer	200	—

At the end of April the prospectus of this company startled the City by announcing one of the most ambitious schemes that ever issued from the human brain. The capital was a poor 200,000*l.*, out of which the vendors demanded only 50,000*l.*, and with this modest start in business the directors promised to show an annual profit of 34,905*l.* At the time we pointed out that it was only the modesty of the board that confined the estimated profits within this limit; for by their method of calculation the amount might have been multiplied indefinitely. The public were invited to subscribe 150,000*l.*, and as the company was under contract to acquire seventy-six "establishments of chemists and druggists, all going concerns," the board ought, no doubt, to have been floating breast high in cheques and application forms when they went to sit in the seat of allotment. So much envy and malice exist in this transient world, however, that, according to our learned contemporary, THE CHEMIST AND DRUGGIST, the public only played up to the tune of from 16,000*l.* to 17,000*l.* THE CHEMIST AND DRUGGIST is making heroic endeavours to obtain a list of shareholders, but although the company went to allotment on May 17, the directors are said to have refused information on the humorous ground that the register is not yet complete. We doubt whether it ever will be, and, unfortunately, this is not a legitimate reason for the refusal. If THE CHEMIST AND DRUGGIST is willing to pay for a list, the law requires the company to furnish one immediately after allotment. But, in the meantime, it is sufficient for us to know that as a flotation the company was the failure to which it was, in our opinion, always foredoomed.—*Investors' Guardian*, June 26, 1895.

We had occasion, some two months since, to refer to a company called "The Chemists' Co-operative Society (Limited)," then soliciting subscriptions from the public. The current issue of THE CHEMIST AND DRUGGIST has a paragraph with reference to the same company, in which complaint is made of the apparent impossibility of obtaining a register of shareholders, despite the fact that the allotment was made as far back as May 17. On June 7, however, a book which appeared to be a register of shareholders, and which the secretary stated accounted for between 16,000 and 17,000 shares, was shown to a representative of our contemporary, and at the same time there was produced a letter, dated June 6, in which it was stated that the directors would consider and determine upon the allotment of further shares to the extent of over 60,000*l.* Our contemporary, assuming, not unnaturally, that a total of between 16,000 and 17,000 shares is the amount subscribed for by the public towards this enterprise, thinks the fact will be worth the careful consideration of both the vendors of the various businesses and of the investor. In this we cordially agree. On the secretary's own tacit admission, this company, which called its capital 157,500*l.*, went to allotment on 16,000*l.* For our part, we did not expect that this sum would be exceeded; indeed, we are somewhat surprised and sorry that the public should have taken up so much.—*Financial Times*, June 24, 1895.

This ambitious undertaking came out at the beginning of May last with a share capital of 200,000*l.* It was formed for the purpose of carrying on the business of wholesale, retail, manufacturing, and export chemists and druggists, for which purpose it had entered into a contract to acquire immediately 40 chemists' shops in London and the provinces, and 36 others subject to the net profits amounting to 11,000*l.* The purchase-price of the entire show was fixed at 122,500*l.*, of which 70,000*l.* was to be in cash, and the balance in ordinary and preference shares. When the prospectus came out we ventured to look closely into the pretensions of the affair, with the result that we strongly warned the public to have nothing to do with it. THE CHEMIST AND DRUGGIST has been making inquiries as to how the company fared with the investing classes, and after a good deal of trouble has ascertained that between 16,000 and 17,000 shares only had been taken up by the public, but that the directors were contemplating issuing a further 60,000 shares. It would be interesting to learn how the vendors have been paid their 70,000*l.* cash out of the 16,000*l.* or 17,000*l.* found by the public—that is, if they really have been paid—and also, how many out of the 76 businesses have been acquired. The foregoing cash subscriptions were paid on an understanding that 40 of those businesses were to be taken over at once. Have they been so taken over? If they have not, then it seems to us the original subscribers can demand to have their money returned to them. What strikes us, and, doubtless, will strike a good many others, as singular is that the directors and promoters should have had the hardihood to go to allotment on subscriptions amounting to less than a fourth of the sum required to meet the bare cash part of the purchase-price of the businesses to be acquired. Nobody would, of course, be surprised to hear at any moment that the whole affair had collapsed by reason of the inadequacy of the working capital. That is a very commonplace cause of collapse and the loss of shareholders' money in similar circumstances, and it is a pity that there is no legislative provision to prevent directors of new companies going to allotment on so small a proportion of capital.—*Morning*, June 25, 1895.

ATHLETE: "Did—I—break it, doctor?" Doctor: "I will be plain, sir. The arm is broken, the collar-bone crushed, the skull is fractured"—— Athlete: "No, no, no. The—did—I—break the"—— Doctor: "What, my dear fellow?" Athlete: "Record?"

FIRE AT A CHEMIST'S.—On Tuesday night a fire broke out at 38 George Street, Croydon, which is occupied on the ground floor by Mr. Josiah Clarke, chemist; on the first floor by Mr. Richard Cooper, solicitor; and on the second floor by Mr. Matthews, manager to Mr. Clarke. The fire seems to have originated from a defective flue which set fire to the first floor, and the fire extended to the second floor, where three of Mr. Matthews's children were sleeping. They were rescued and taken care of by Mr. Gill, a neighbouring chemist.

Legal Reports.

DAMAGES FOR BREACH OF CONTRACT.

At the County of London Sheriffs Court, Holborn, on June 21, the case of "Lever *v.* Cox and another," remitted from the High Court came on for the assessment of damages. It was an action in which Mr. John Lever, a chemist's traveller, of 49 Oxbury Avenue, Fulham, sued Ebenezer Cox and H. B. Bainbridge, trading as the Camden Chemical Company, manufacturing chemists, of 60 and 62 Pratt Street, Camden Town, N.W., to recover damages for breach of contract. Judgment had been allowed to go by default, and the only question for the Court was one of damages. Mr. Ernest F. Lever, counsel for the plaintiff, stated that on February 11 the parties entered into an agreement by which the plaintiff was to receive 5*s.* and 2*s.* 6*d.* by way of commission upon each introductory order and a commission of 7½ per cent. on all repeat orders. Plaintiff consequently commenced his journeys and received many orders, but had only been in the service of the company for two weeks when he was asked to stop, as the stuff that he was travelling with was not ready. At the end of a month the engagement was terminated by Mr. Cox, and the present action commenced.

During plaintiff's examination it transpired that 17*s.* 6*d.* commission had been offered to and received by him, and defendants claimed that as a termination of the contract. Mr. E. Cox, one of the defendants, stated that the business is in Chancery, being wound up, because it had been a failure—in fact, the company had been misrepresented. The jury assessed the damages at 30*l.*, for which amount judgment was entered, with costs.

THE FRANZ-JOSEF WATER CASE.

On Friday, June 21, Mr. Justice Stirling gave his decision in regard to the application of Mr. Hirschler, of Budapest, for an injunction to restrain Messrs. Hertz & Collingwood from advertising themselves as sole agents for the Franz Josef water and from threatening purchasers with legal proceedings.

The respondents, under a certain agreement with Mr. Hirschler, claimed the sole right of sale of the water in certain countries, including the United Kingdom. This agreement had been determined by Mr. Hirschler, and the respondents had brought an action against him for so doing, and had advertised in certain trade journals stating that they claimed the sole right of sale and warning people against purchasing the water except through them Under an order of the Court the advertisements were discontinued some weeks ago, and it was now sought to restrain them from appearing again pending the trial of the action.

His Lordship, in giving his decision, said that the question was whether Messrs. Hertz & Collingwood were entitled to publish the advertisements they had issued or could they be restrained by the Court from doing so. Had the respondents such rights as they claimed to have by their advertisements? First, they asserted a right against the applicant and any persons appointed to act as his agents in England; and secondly, they claimed certain rights as against the purchasers of the Franz-Josef water. The first portion, that as to their rights against the applicant and his agents, would be a matter for future discussion. There was a contest as to the meaning of the agreement between the parties, which was in the German language, and the portions put in evidence did not agree. On the part of the applicant it was contended that it was an "agency" contract, whilst on behalf of the respondents it was designated a "consignee's" contract. If the contract were looked upon as a consigneeship there would be great difficulty in the way of the applicant obtaining the injunction he sought Had he acted beyond his rights in determining the contract it would be difficult for the Court to interfere by way of an injunction whatever the right of the respondents might be in regard to damages. The second portion of the advertisements asserted that the respondents might make purchasers, dealing with the applicant or any persons appointed by him, parties to any proceeding which the respondents thought fit to take. This raised a totally different question, and his Lordship had great difficulty in seeing how any such action could be maintained against a purchaser. The rights of the respondents in their action rested on the contract. What right could they possess against persons with whom they had no contract? They did not possess any exclusive right such as was invested in a patentee. Were the respondents making these claims knowing they had no such claims, or without reasonable and probable cause and not in good faith? As regards the first portion of the advertisement, it was simply a notice that under a contract they claimed certain rights every word of which was true, and it would be difficult to interfere with that, as although the respondents were late in bringing their action to enforce their rights, the fact that they had brought an action showed they were acting in good faith. Taking all things into consideration, his Lordship said he could not see his way to interfere with the first part of the advertisement As regards the second part, although it had not been made out that the respondents had any such rights as they claimed against the purchasers, yet they may have considered they had, and, believing so, had published that portion in good faith. In conclusion, his Lordship said that on the materials before him he could not grant the injunction asked for. With regard to the second portion of the advertisement, the respondents would henceforth stand in a very different position, and although he made no order on the present motion, it would be without prejudice to any application the applicant might hereafter think fit to make.

The cost of this application would be dealt with at the trial of the action.

ADULTERATION CASES.

Olive Oil.

At the Horsham Police Court on Saturday, Alfred George Wheeler, grocer, of Queen Street, Horsham, was summoned for selling a quantity of olive oil which Mr. Otto Hehner reported to be cotton-seed oil, without a trace of olive oil at all. Mr. Henwood for the defence said the oil was sold to defendant as olive oil, and he produced an invoice to that effect.

The Bench decided to dismiss the case on the ground that the defendant believed he was selling a pure article. In reply to the Bench Mr. Henwood said he had not been instructed to appear on behalf of the wholesale dealers, but they bought it as olive oil themselves, and they had no idea it was otherwise than pure.

The Chairman remarked that in these cases it was generally the Englishman who suffered.

Mr. Henwood: Yes; he has been very much "had" by the foreigner in this case. (Laughter.)

Spirit of Nitrous Ether.

Mr. Kendel Daykin, grocer, Ripley, was summoned at the Petty Sessions, on Monday, for selling adulterated spirit of nitrous ether. It was proved that the drug contained only half the B.P. minimum of nitrous ether. A fine of 25*s.*, including costs, was imposed.

Tincture of Rhubarb.

At the same Court Mr. Jas. Waterall, grocer, Loscoe, was fined 26*s.*, including costs, for selling adulterated tincture of rhubarb.

Ginger or not Ginger?

Sheriff Strachan, Glasgow, gave his decision on Wednesday on the preliminary pleas in a prosecution against William Aitken, grocer, 475 New Kappochhill Road, who was charged with selling ¼ lb of ground ginger which, on analysis, was found to contain 20 per cent. of exhausted ginger. At the first hearing Mr. William Borland contended, on behalf of the respondent, that the charge was irrelevant, this being based on the 6th clause. The Sheriff took time to consider the matter, and, in the course of his remarks on Wednesday, severely criticised the wording of the Act. He held the complaint to be relevant, and thought it right to say that it would not be enough for the prosecutor merely to prove that the article sold contained 20 per cent. of spent or exhausted ginger. He must go further, and satisfy him.

that it was so different in nature, substance, and quality that it could not in any reasonable sense be termed ground ginger.

WHITE-WINE VINEGAR.

AT the Southampton Borough Police Court, on Friday morning (June 21), before Messrs. G. P. Perkins and R. Chipperfield, William Day, of Day's Southern Drug Company (Limited), St. Mary's Street, was summoned for "selling a certain white-wine vinegar which was not of the nature, substance, and quality of the article demanded, it consisting entirely of diluted distilled acetic acid."

The Town Clerk (Mr. G. B. Nalder) appeared for the prosecution, and Mr. H. D. M. Page for the defence.

Mr Page asked immediately that the third sample should be forwarded for analysis to Somerset House. Mr. Day had bought the article from one of the first manufacturers in England. The sample left had meanwhile been analysed and proved to be what it was sold for, and he should like, therefore, that the third sample should be sent to Somerset House.

Mr. Nalder: I have such great confidence in Mr. Brierley, the borough analyst, that I shall have no objection whatever to this proposal.

Mr. Perkins: I cannot see that you have any alternative.

Mr. Page: Then I will ask that the case may be adjourned for the purpose.

This was agreed to.

William Walter, chemist, of 69 Oxford Street, was summoned for a similar offence.

Mr. Walter said he wished to plead guilty, as he sold the article.

The Town Clerk: May I suggest to the Bench that this case may stand over until the previous one is heard, in fairness to the defendant? I wish to be absolutely fair in this matter, because both these cases are precisely the same. It is really a test case to show whether what is known as white wine vinegar in the trade should or should not consist of merely dilute acetic acid or of an acid made from distilled wine or malt, as the case might be. I should not like to take advantage of this gentleman pleading guilty, as the facts in this case are exactly the same as the one in which application has been made for analysis to be made at Somerset House.

After a short consultation with Mr. Page, the defendant asked that his sample also might be sent to Somerset House.

The Town Clerk said he should be quite willing for the defendant to withdraw his plea of guilty, which he did.

The case was adjourned.

There were many local chemists in court.

ABOUT POWDER-PUFFS.

IN the City of London Court on Thursday, before Mr. Julian Robins, Assistant-Judge, and a jury, the case of Richter *v.* Sinclair, which has been briefly referred to in these columns, was disposed of. The plaintiffs, Messrs. Richter, Tschuschner & Co., sought to recover 1*l.* 15*s.* from Messrs. James Sinclair & Son, Marshalsea Road, Southwark, as damages for the non-acceptance of a quantity of powder-puff boxes which had been ordered. The defence was that the plaintiffs delayed the delivery of the goods so long that when they arrived they were useless to them. The plaintiffs replied that the order was given on February 14, and that no time was stipulated in which to deliver the goods. The delay which had taken place was not unreasonable. They never guaranteed to deliver by any specified time. The defendants alleged that the plaintiffs' traveller said the goods should be delivered within two or three weeks; but that was denied. Mr. Richter said the time generally occupied was six or eight weeks. The Assistant Judge said that could not be allowed to apply generally, unless it was shown that the custom was well understood by all people dealing in such goods. The defendants said they had received some goods from Germany in fourteen days from the date of the order. The plaintiffs replied that that was when they were ready, and had not to be made. Ultimately the jury found for the plaintiffs for 4*s.* 6*d.* Judgment accordingly.

SALE OF POISONS IN IRELAND.

THE RIGHTS OF TRUSTEES.

ON Thursday, June 27, in the Southern Divisional Police Court, Mr. Swifte, Divisional Magistrate, gave his decision in the suit brought by the Pharmaceutical Society of Ireland against Mrs. Margaret Fannin and Mr. Richard W. Booth, trading as Fannin & Co., surgical-instrument makers, 41 Grafton Street, Dublin, in three summonses, charging them with having on February 12 and 13 and March 15 unlawfully sold to Mr. G. A. Phillips, the Inspector of the Society, poisons—viz., corrosive sublimate in antiseptic tablets, morphine in hypodermic tablets, and bichloride of mercury in tablets—contrary to section 30 of the Pharmacy Act (Ireland), 1875, they being not properly qualified to do so.

For the defence it was argued that the late Mr. Fannin had he lived would have been entitled to registration as a chemist and druggist, and it was sought to be shown that his executors inherited that right. The Magistrate reserved his decision; but on Thursday he imposed on the defendants mitigated penalties of 3*l.* in each of the three cases, with costs, amounting in all to 10*l.* 10*s.*

Bankruptcy Reports.

Re WILLIAM DALE BAYLASS, trading as the Baylass Drug Company (Limited), 50 Union Street, Torquay, Chemist and Druggist. In this recent failure the following are the creditors:—

	£	s.	d.
Ayrton & Saunders, Liverpool	51	0	0
Baylass, W., Stoke-on-Trent	127	3	0
Boehm, G., London	22	3	4
Bovril Company (Limited), London	10	0	0
Buswell, C. & W., Torquay	50	4	11
Clements & Co. (Limited), Bristol	11	16	2
Cook & Co., London	10	0	0
Cooper, H. G., London	16	12	0
Corbyn & Co., London	14	19	0
Davidson & Sons, London	10	0	0
Davy, Yates & Hicks, London	65	2	10
Durant, J., Bristol	10	0	0
Goldhilt & Co., London	26	0	0
Grogan Brothers, Torquay	28	14	0
Hare & Co., Bristol	10	0	0
Hearn, Wright & Co., London	12	6	5
Hodgkinson, Prestons & King, London	59	19	4
Hovenden & Sons, London	26	11	1
Idris & Co, London	10	0	0
Lloyd & Co., Leicester	27	11	10
Newball & Mason, Nottingham	25	13	1
Oppenheimer & Co., London	10	0	0
Parkes, N. A., Nottingham	10	0	0
Robinson, B., Manchester	10	0	0
Roseman, —, Stonehouse	28	8	0
Schutze & Co., London	66	16	1
Sharp Brothers, London	21	5	8
Tidman & Son, London	36	16	9
Titterton & Howard, London	29	8	10
Torquay Gas Company, Torquay	10	0	0
Van Oppen & Co., London	17	19	4
Western Daily Mercury, Plymouth	26	7	0
Western Morning News, Plymouth	10	0	0
Whitaker & Grossmith, London	11	7	1
White & Co., Torquay	26	6	2
Fully Secured.			
National Provincial Bank of England, Torquay	27	3	0

Re EDWARD CORBETT, Garth, Manufacturing Chemist.

THIS debtor made an application for his discharge at the last sitting of the Wrexham Bankruptcy Court before his Honour Sir Horatio Lloyd. The Official Receiver reported that the assets had realised 17*l.* 3*s.* 9*d.*, which was 6*l.* 9*s.* short of the expense of winding up the estate. The bankrupt commenced business as a manufacturing chemist at the Plaskynaston Chemical-works in 1876. Some months before his failure he made an assignment for the benefit of his creditors, and the business was taken over by Mr. Graesser, who paid the creditors a composition of 6*s.* in the pound.

The immediate cause of the debtor filing his petition was in consequence of a creditor obtaining judgment against him under an agreement in reference to a speculation in carbolic acid. The debtor also lost 100*l.* over a patent-medicine speculation. He was now earning a little money on commission.

His Honour said he would grant the debtor his discharge provided he entered into a bond to pay the Official Receiver 15*l.* within six months. The debtor agreed to this, and the discharge was granted accordingly.

Re William Bray, 237 Blackfriars Road, Chemists' Sundriesman.

An application was made last Tuesday to Mr. Registrar Linklater, at the London Bankruptcy Court, for an order of discharge on behalf of this bankrupt, who traded as above, in partnership with Mr. J. H. West, as West & Bray.

It appeared from the report of the Official Receiver that the bankrupt failed in March, 1892, with ranking liabilities 771*l.* 14*s.* 3*d.*, and assets expected to produce 194*l.* 15*s* 3*d.*, but which have realised 274*l.* 6*s.* 3*d.* The difference is accounted for mainly by the recovery of 180*l.* from Mr. Bray's relatives, whilst, on the other hand, book-debts estimated to produce 139*l.* 15*s* 3*d.*, have only realised 57*l.* 6*s.* 1*d.*, it appearing that the greater proportion were in respect of goods supplied on "sale or return." Those goods have, in many instances, been returned to the Official Receiver. The bankrupts entered into partnership in October, 1891, and carried on business as grocers' and chemists' sundriesmen, at 237 Blackfriars Road. They had no money of their own, but were advanced 300*l.*, in respect of a portion of which the bankrupts were tried and acquitted under section 13 sub-section 1 of the Debtors Act, 1869. At a private meeting of creditors held on March 11, 1892, a composition offer of 4*s.* in the pound was rejected, whereupon the bankrupts filed their petition. The failure was attributed to want of capital, expenses of advertising, and interest on borrowed moneys. As offences the Official Receiver reported against this bankrupt (1) that the assets were insufficient to show 10*s.* in the pound on the unsecured indebtedness, (2) trading with knowledge of insolvency, and (3) within three months of the failure giving undue preferences to two creditors.

Mr. Lee Roberts addressed the Court in support of the application, and asked for the discharge to be granted subject only to the minimum suspension of two years.

His Honour made an order to that effect, stating that he did so having regard to the fact that the bankrupt had already been before the Court for three years.

Re Henry Cohen, 35 White Lion Street, Norton Folgate, Commercial Traveller in the Sponge Trade.

This bankrupt, who failed last March, applied to Mr. Registrar Giffard last Thursday, at the London Bankruptcy Court, for an order of discharge. In 1889 he was a traveller for Messrs. Cantor & Co., sponge-merchants, of Houndsditch, on a commission. He attributed his failure to losses by betting and gambling, and to his personal and travelling expenses having exceeded his income for the last five years. The betting and gambling losses amounted to between 800*l* and 900*l.* between 1889 and June, 1893. While employed by Messrs. Cantor & Co., the bankrupt collected and misappropriated 546*l.* 14*s.* 6*d* belonging to his principals; he further disposed of eleven cases of sponges belonging to them for 171*l.* 13*s*, and, having obtained payment for them, he applied the proceeds to his own use. In another case he pledged with Messrs. Nicol, Spence & Co., of Glasgow sponges to the value of 100*l.* belonging to his firm, and appropriated to his own use the proceeds of the pledging. The above moneys were for the most part applied by the bankrupt in payment of his betting and gambling debts. These and other facts having been read from the Official Receiver's report, Mr. Peile addressed the Court in support of the application. He pointed out that although his client had been very foolish and had committed grave irregularities, he had not committed breaches of trust, as he never stood in the legal position of trustee to Messrs. Cantor & Co. The bankrupt was now in respectable employment, and was anxious to retrieve the past. Under these circumstances he asked the Court to take a lenient view of the case, and grant the discharge subject to a moderate suspension.

The learned Registrar suspended the discharge for eight years.

Re Ferdinand Fanta, Arundel Street, Strand, Engineer.

This debtor attended last week at the London Bankruptcy Court, and applied to pass his public examination upon accounts showing gross liabilities 5,886*l.* 17*s* 8*d.*, of which 2 101*l* 5*s.* 2*d.* are expected to rank, against assets valued at 5,831*l.* 13*s.* 5*d.*

In the course of his evidence, the debtor said his business was that of an engineer, but he advised people as to machinery and patents, and his principal time had been given to a patent for the manufacture of oxygen. A company was formed to take over that patent, he being appointed engineer and managing director thereof. His liabilities principally related to that company. The Oxygen-producing Syndicate was formed in 1892. Witness, as one of the vendors and promoters, was to have 30 per cent. of the net profit from the purchase-price, which was fixed at 7,500*l.* cash and 42 500*l* in shares. He ascribed his present position to the non-payment by the company of the moneys due to him, and to pressure by creditors. An offer of 20*s.* in the pound had been accepted by the creditors, who knew that the payment depended upon the realisation of the company's assets. Before turning the patent over to the company witness worked it experimentally for two years. The shares of the company had been sold at par, and in some cases had changed hands at a premium.

The examination was ordered to be concluded.

Deeds of Arrangement.

Ramsay, Robert Hamilton, Duncan House, Torquay, Doctor of Medicine. Dated, June 18; filed, June 20. Unsecured liabilities, 1,311*l.* 10*s.* Composition of 10*s.* in the pound already paid.

Wells, William George, High Street, New Romney, and the Post Office, Littlestone, chemist and druggist. Trustees, Alfred H. Smith, New Romney, grocer, and another. Dated June 24; filed June 25. Unsecured liabilities, 703*l.* 3*s.*; estimated net assets, 466*l.* 8*s.* 8*d.* The following are scheduled as creditors:—

	£	s.	d.
Adams, J., Rye	52	0	0
Barclay & Co., London	27	0	0
Chester, Vaughan, London	20	0	0
Collins, John, Maidstone	20	0	0
Collins, Son & Co., London	20	0	0
Cooper & Co., Berkhampstead	54	0	0
Corfe, A. F., Maidstone	29	0	0
Falk, Stahleman & Co., London	12	0	0
Hovenden & Son, London	18	0	0
Hymans, Abrahams & Co., London	12	0	0
Kentish Express, Ashford	20	0	0
Marlborough, E., & Co., London	52	0	0
Maw, Son, & Thompson, London	25	0	0
Midmore, F., Maidstone	10	0	0
Pinto & Co., London	13	0	0
Pomfret, Burra & Co., Ashford	27	0	0
Shelvey & Co., Brighton	15	0	0
Smith, A. H., New Romney	37	0	0
Welden, W., New Romney	13	0	0
Wright, Layman & Umney, London	33	0	0

(And creditors under 10*l.*)

White, John, Masborough Street, Masborough, Rotherham, chemist. Trustee, Thomas Leman, Nottingham, accountant. Dated, June 14; filed, June 20. Unsecured liabilities, 332*l.* 6*s.* 2*d.*; estimated net assets, 109*l.* 11*s.* The following are scheduled as creditors:—

	£	s.	d.
Allison, E. & H. (Limited), Hull	16	0	0
Co-operative Society, Rotherham	25	0	0
Fieldson, K. W., Rotherham	20	0	0
Hirst, Brooke & Hirst (Limited), Leeds	36	0	0
Raimes & Co., York	41	0	0
Sissons Bros. & Co. (Limited), Hull	10	0	0
Southall Bros. & Barclay, Birmingham	12	0	0
Todd & Son, Hull	11	0	0
West of England Varnish Company, Bristol	11	0	0
Woolley, James, Sons & Co., Manchester	13	0	0

Gazette.

PARTNERSHIPS DISSOLVED.

Beckett, E. S., and **Beckett, C.,** under the style of E. Beckett & Co., Liverpool, aërated-water manufacturers.

Deacon, H. J., and **Davis, G. E.,** under the style of H. J. Deacon & Co., Beckenham chemists.

Holroyde, J., and **Frederick, H. J.,** under the style of Holroyde & Frederick, Chatham, surgeons and medical practitioners.

Kaye, J., and **Crossley, J.,** under the style of the Elland Aërated Water Company, Elland, aërated-water manufacturers.

Mitchell, R. N., and **Foster, W. J.,** under the style of Drs. Mitchell & Foster, Chester House, Wickham Road, and Lewisham High Road, S.E., doctors of medicine.

Smith, G., and **Bell, W. J.,** under the style of Smith & Bell, Appleby, surgeons, apothecaries, and medical practitioners.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATIONS.

Fletcher, Charles, Nottingham, chemist and druggist's assistant, late chemist and druggist.

Watkins, William Richards, Llanelly, chemist and druggist.

ORDER MADE ON APPLICATION FOR DISCHARGE.

Brassington, Aloysius, Crediton, veterinary surgeon—discharge suspended for three months, ending August 16, 1895.

Personalities.

PROFESSOR IRA REMSEN is expected to attend the meeting of the Society of Chemical Industry at Leeds on July 17.

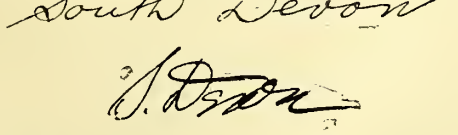
MR. J. INGALL, chemist and druggist, High Street, Ashford (Kent), has been re-elected a representative governor of the Ashford Grammar School by the Urban District Council.

MR. E. P. WYNNE, chemist and druggist, has been elected a Conservative member of the Aberystwith Town Council. Mr. Wynne was returned with a majority of 115 over his opponent

ACCORDING to the *Lancet*, Mr. J. S. Armitage, L D.S., the North London dentist, owes his conviction under the Pharmacy Act (*C. & D.*, page 745) to information given to the Pharmaceutical Society by the London and Counties Medical Protection Society.

MR. CARTER, homœopathic chemist, of West Hartlepool, was seeking shelter, with other persons, under an ash tree at the Royal Agricultural Show on Wednesday, during a severe thunderstorm. The lightning struck the tree, and two of the men were taken away in a dying condition. Mr. Carter and two others were removed to the Darlington Hospital, and their recovery is expected.

THERE is someone applying for situations as an outdoor assistant, who writes from Reading and describes himself as "James Ingham, Minor certificate, No. 10,071; age 25; height 5 feet 7 inches; married." He states that he was apprenticed with Mr W. W. Jones, Bristol, which we have ascertained is not correct, and another reference which he



has given has been found to be bogus. We have also ascertained that he is not the James Ingham who is registered as a chemist and druggist. The latter gentleman belongs to Scarborough, and is at present, we are told, with Mr. Knowles, Cleckheaton, where he served his apprenticeship. We give above facsimiles of the bogus man's handwriting.

THE man who presents forged chemists' orders at wholesale houses and concerning whom Messrs. May, Roberts & Co., F. Newbery & Sons, and Bourne, Johnson & Latimer have given information in our last two numbers (for we assume the same person to have been referred to in all these instances), is still uncaught, and though he has only just come out of prison for a similar offence, the police seem unable to trace him. Messrs. Newbery are issuing slips to their customers asking them, in view of the bogus orders about, to sign and date their orders as carefully as they do their cheques. Wholesale houses are no doubt in a position of difficulty when they receive an order for goods by bearer which may or may not be genuine. They may seriously inconvenience and offend a good customer if they refuse to execute it, or they risk the loss of their goods if they supply them.

Marriage.

BETHUNE—BOWIE.—At 274 High Street, Forres, on June 19, by the Rev. Dr. Keith, William J. Bethune, chemist, Inverness, to Bella, second daughter of James Bowie, wine-merchant, Forres.

Deaths.

CROSS.—On June 25, Winifred, wife of John T. Cross, chemist, Wingate, co. Durham. Aged 45.

FINLAYSON.—Mr. Thomas Finlayson, M P.S., Leith, died of extreme weakness on June 18. He was in his 75th year. Very early in life his parents removed from Kirriemuir to Leith, where he may be said to have spent his life. He served his apprenticeship in Edinburgh, and was afterwards a short time dispenser to a medical man in Galashiels; then he was apothecary in the Old Edinburgh Infirmary, and studied medicine, but failing sight compelled him to give it up. He opened a pharmacy in Leith when he was 20, and in his time occupied various premises, but his best known pharmacy was in Ferry Road, which he disposed of to Mr. J. T. Coats two years ago. Mr. Finlayson was well-known to the older generation of Edinburgh pharmacists as one of the first Scotch supporters of the Pharmaceutical Society, whose local Secretary he was for about a quarter of a century. Mr. Finlayson leaves a widow and young family.

OLDHAM.—On Sunday afternoon last, Mr. W. T. Oldham, chemist, of Market Street, Wisbech, died rather suddenly at his residence in Park Avenue, aged 77. Mr. Oldham went to Wisbech to take charge of the business of Mr Wales, and ultimately became the principal. He took an active interest in local affairs. He leaves a family of two sons and two daughters. Mr. Frank Oldham, the youngest son, has latterly conducted the business.

SCHIEFFELIN.—Our New York correspondent telegraphs:—"Mr. William H. Schieffelin, head of the wholesale drug-firm of W. H. Schieffelin & Sons, died on Friday last, after having been ill for some time."

THOMPSON.—On June 17, Edward Thompson, chemist and druggist, Leeds. Aged 83.

WILLIAMSON.—The death at Clapham is reported of Dr. William Crawford Williamson, LL.D., F.R.S., formerly Professor of Botany at Owens College, Manchester. His speciality was fossil botany. Dr. Williamson was in his 79th year.

New Books.

Gautier, Dr. M., and F. Renault. *Formulaire des spécialités pharmaceutiques, composition, indications thérapeutiques, mode d'emploi et dosage, à l'usage des médecins.* 8vo. Pp. 300. 3 fr. (J.-B. Baillière et Fils).

Green, J. Reynolds. *A Manual of Botany.* Vol. I. "Morphology and Anatomy." (Based upon the Manual of the late Professor Bentley.) Crown 8vo Pp. 398. Illustrated. Cloth. 7*s.* 6*d.* (Churchill).

Photographic Annual. A compendium of photographic information with a record of progress in photography for the past year. Edited by Henry Sturmey. 8vo. 670 pp. Illustrated. Paper covers, 2*s.* 6*d.*; cloth, 3*s.* 6*d.* (Iliffe).

Western Chemists' Association.

AN adjourned meeting of this metropolitan Association was held on June 19 when the PRESIDENT (Mr. R. H. Parker) re-opened the discussion on

THE PRESENT PHASE OF THE POISONS LAW.

He recapitulated the proceedings of the previous meeting (*vide C. & D.*, page 716) claiming the necessity of establishing pharmacy on a clearer and more logical basis than the recent interpretations of the Pharmacy Act afforded. He said the subjects urgently demanding consideration in a new Pharmacy Bill were:—(1) Company pharmacy and the protection of titles. The right of a properly constituted limited liability company to own a pharmacy which is under the immediate personal control of a qualified chemist had been supported by several legal decisions, and could not now be logically objected to; but he maintained strongly that the use of the title "chemists and druggists," as applied to any company not consisting entirely of qualified chemists, should be powerfully opposed, so as to confine their use of the title to the personality of their qualified manager. (2) Branch shops and medical dispensaries. Every one of these (excepting private dispensaries of medical practitioners) should have a qualified chemist as *bôna-fide* manager, responsible for one establishment only. (3) The restriction of dispensing to qualified chemists (medical practitioners being allowed to dispense for their own patients only). (4) The poisons schedule needs to be rid of the ambiguity of the term "preparations" in Part I; all potent "preparations" should be enumerated in Part I., the rest being described in Part II. as "other preparations not enumerated in Part I." (5) Examinations. He considered that the First or Preliminary examination should be much more stringent than it is at present; and that the Minor examination should be divided into an "intermediate" and a "qualifying" section, so that an assistant on passing the "intermediate" would be permitted to sell and dispense poisons during temporary absence of the principal. Company pharmacy and the branch-shops difficulty would, he thought, be best met by regulations as follow:—Every pharmacy (or place where poisons are sold or dispensed) should be registered, and a record kept of its owner or owners; if not actually conducted by its owner, then the name of the *bôna-fide* manager should be known. This triple record should be corrected annually by a personal visit from the local secretary; a penalty should be incurred by any owner of a pharmacy who failed to conform with this regulation. Every such pharmacy should be personally conducted by a qualified manager (who may be the owner) responsible, as regards his assistants as well as himself, for the proper conduct of that pharmacy only; his managership certificate should be cancelled for gross inattention or misconduct.

The resolution embodying these suggestions, as submitted to the last meeting, was then read.

Mr. BUTT pointed out that the danger following the existence of the bogus or one-man company had fairly ceased to exist, for the opinion was rapidly gaining ground among lawyers that such concerns were distinctly evasive, and, therefore, illegal. As regards qualified managership, he did not think there was need for further legislation, as the present Act was made to apply so closely that practically no chemist's business could be carried on without a qualified manager, and if anybody knew of such being done and would communicate with the Secretary of the Pharmaceutical Society he felt sure it would soon be stopped. He did not think it would be advisable to divide the Minor examination.

Mr. SPYER insisted on the importance of carrying out the requirements of the poisons schedule to the full extent; it protected the public and impressed them with the importance of the restrictions.

Mr. ALLEN agreed with the earlier portion of the resolution, but claimed that an assistant's qualification to permit taking sole charge of a pharmacy for a day or for a fortnight would speedily be recognised by lawyers as sufficient for the whole year; it would, therefore, lead to the reduction of our educational standard. Nor could he agree with the proposed alteration of the poisons schedule, as in point of law the word "preparations" was now practically dropped. The judges could not distinguish between quantities. They held that when a man sold a solution of a poison he sold the poison, and the requirements of the Act must be complied with as though the poison itself had been sold. He would, therefore, suggest as an amendment that the resolution should read:—

That this meeting, while supporting the policy of the Council of the Pharmaceutical Society in its administration of the Pharmacy Act under recent interpretations, is of opinion that future legislation should be directed towards (1) the conjoint registration of every pharmacy with the name of its qualified manager and of its owner or owners, the manager to be held responsible for its proper conduct, and, together with the owner or owners, for any pecuniary penalties that may be incurred; (2) the restriction of dispensing medical prescriptions to registered pharmacies; and (3) the raising of the standard of the First or Preliminary examination.

Mr. HYNE seconded the amendment.

The PRESIDENT, in putting the amendment to the meeting said that he had been under the impression that there were still many chemists' businesses and open surgeries, especially in the North, which were in charge of apprentices and unqualified assistants. He was glad to learn that such was not the case to any great extent, and would soon be a thing of the past. The significance of the word "preparations" could not be logically ignored by the lawyers as long as the present poisons schedule existed, for the fact that "corrosive sublimate" stands alone in Part I. while "preparations of corrosive sublimate" appears in Part II., clearly showed that a preparation of a poison is not the poison within the meaning of the Act

The amendment, being supported by a considerable majority, was put as the substantive resolution, and carried.

Indian News.

(*From Our Calcutta Correspondent.*)

CALCUTTA, June 4.

SYNTHETIC WHISKY.—During a prosecution which is at present proceeding in Calcutta for the fraudulent manufacture of spirits by a European named John Croft, the following interesting inventory of some of the contents of that enterprising individual's laboratory—or cellar, rather—was produced:—One hundred bottles of essence of whisky and brandy, one bottle essence of Irish whisky, essence of pineapple, sweet-almond oil, two large bottles of œnanthic ether, two bottles malt ether, a large jar containing extract of grapes, a vial of nitric acid, tincture of capsicum, tincture of tobacco, tincture of liquorice-root, oil of grapes, jars containing tincture of apricot, tincture of plantain (bananas), tobacco and chillies, caramel and packets of oxide of manganese. This list is said to embrace all the essential elements of the noted brands of Scotch whisky which are so popular in India, any of which were said to be made to order as required.

BIG DRUG-CONCERNS.—The annual financial statements of some of the large limited liability drug-concerns in India have just been published Messrs. Treacher & Co. (Limited), of Bombay, Byculla and Poona, announce that, notwithstanding a lower rate of exchange than they had anticipated and "the bad condition of trade generally," and the late imposition of import duty, they have decided to pay a dividend of 60r. per share, which will absorb 1,20,000r. of the balance on the year's transactions, after applying 5,737r. to depreciation, leaving 5,306r. to be carried forward. Messrs. Treacher's business, it may be mentioned, is on the "universal-providing" principle. Messrs. R. Scott, Thompson & Co. (Limited), of Calcutta, in their twenty-third annual report, state that their net sales during the year under report amounted to 2,81,840r., or something like 780r. or 40*l.* a day, while the amount realised from balances outstanding at the end of the previous year was 71,282r., and from sales effected during the year 1,87,633r., making a total turnover of 5 lakhs and 40,000r (5,40,775r). The divisible balance accruing amounts to 13,829r., allowing a dividend at the rate of 5 per cent. for the year and absorbing 11,675r., a balance of 2,154r. being carried forward to next year. Messrs. Scott, Thompson's business, although not the largest in Calcutta, is purely pharmaceutical, and to a large extent retail.

Chemical Society.

THERE was scarcely a vacant seat on the benches at Burlington House, on Thursday, June 20, as Fellows came up in great numbers to hear Professor Ramsay read his paper on helium In accordance with notice given at the previous meeting, there was an extraordinary general meeting at 8 P.M. This, however, was merely formal The President proposed the alteration in the life composition fee, as already reported, whereupon Professor Tilden, amid much laughter, said that they might have gone a step further and said that those who had paid thirty years' fees should pay nothing, as he had subscribed for thirty years. The proposed alteration in the by-law was carried unanimously There was also a ballot for the election of Fellows. Black-balls were at a discount, and all the candidates were elected The only one in direct connection with pharmacy was Mr. A. J. Simons, who was formerly with Messrs. T. Tyrer & Co., but is now in Australia. The President then called on Mr. Horace Brown to read an abstract of his paper on

LINTNER'S ISOMALTOSE.

Emil Fischer had originally prepared a sugar by the action of HCl on dextrose, which he could not obtain pure, but apparently separated its osazone, and it corresponded to the formula $C_{12}H_{22}O_{11}$, and was, therefore, termed an isomer of maltose. Lintner then obtained this osazone from beer, and finally concluded that the sugar was a constant product of the hydrolysis of starch. He also obtained what he considered the pure isomaltose; but the compound was never rigorously examined. The whole of Messrs. Brown and Morris's paper went to show that the body does not exist In all the fractions of the products of the hydrolysis of starch obtained by treatment with alcohol, a definite relation holds between the optical activity and the copper-reducing power. The relations between these figures as given by Lintner for his isomaltose broke the observed law, and hence the author's suspicions. They showed, in fact, that the body is in reality maltose, with some unfermentable matter as an impurity. After the paper Mr A R. Ling made a few remarks, the tenour of which was to persuade the meeting, in a gentle way, that this paper was more or less a repetition of his and Mr. Baker's recent work, which it certainly is to a great extent. Then followed the paper by Professor James Walker and Mr. Hamley on the transformation of

AMMONIUM CYANATE WITH UREA.

This was chiefly a study of the rate of change of NH_4CNO into $(NH_2)_2CO$ at various temperatures, &c. The important conclusion to which the authors came was that the action is reversible, and that equilibrium takes place when there is 95 per cent. of urea and 5 per cent. of ammonium cyanate in the solution. They further showed by mathematical reasoning that the phenomena observed were a strong support to Arrhenius's theory of solution, commonly known as the dissociation hypothesis. A short note on the same subject was here interpolated by Mr. Fenton, but was entirely devoid of interest, and then the members began to show signs of impatience, waiting for the helium paper. Mr. Chapman, much to the relief of the Fellows, hurried through his paper on

HUMULENE DERIVATIVES

at express speed. The only point of interest here was that he had succeeded in obtaining a number of crystalline derivatives of the sesquiterpene he described conditionally under the name of humulene in his paper on essential oil of hops. This paper called for a graceful compliment from Professor Tilden. Impatience reached its height when the paper on thiosulphanilic acids was reached, and several Fellows got up and walked out; but those who remained were amply repaid by hearing Miss Walker read her paper *in propriâ persona*. This was quite

A NEW DEPARTURE,

but the young lady traced out her benzene rings on the blackboard and rolled out long names as well as any of her masculine friends, and loud applause greeted her when she resumed her seat. With much good taste Dr. Wynne and Dr. Walker said that the next four papers down in their names might be taken as read, and the theatre resounded with applause as Professor Ramsay stood up to give what many in the audience regarded as his first official paper at the Chemical Society on

HELIUM,

although he announced his discovery at the anniversary meeting. Professor Ramsay first assigned a share of the credit to Dr. Norman Collie, who had, with Mr. Travers, been aiding him in his work. About forty different minerals, more or less rare, had been examined with the view of finding helium in them. It had been found in about fifteen of them. The chief sources up to the present were cleveite, broggerite, samarskite, English pitchblende, and monazite. He had specimens in vacuum tubes from all of these sources, and handed round a dozen small direct-vision spectroscopes for the Fellows to examine the spectrum. The light was now turned down, and the giant Ruhmkorf began to speak. The helium spectrum flashed out to magnificent advantage, and those who did not know would have felt certain that the huge yellow band now called D_3 was the double sodium line, so great was its intensity. The methods used in obtaining the gas were the following:—(1) Pumping out the gas evolved on heating the mineral in an evacuated piece of combustion-tube (this often contained hydrogen and carbonic acid, with sometimes a hydrocarbon, but never any argon); (2) powdering the mineral finely with $KHSO_4$ and heat; (3) or boiling with H_2SO_4 (70 per cent.), preferably in a current of CO_2. The gas is purified by absorbing with KOH, mixing with oxygen, exploding over a little KOH and mercury, and it can then be passed over ignited magnesium and copper oxide when necessary. The spectra showed five especially brilliant lines—one in the red, then the famous yellow line, one in the green, one in the blue, and finally one in the violet. From pitchblende Professor Ramsay only obtained about ½ c.c. from 70 grammes of material. It "didn't pay to extract," said Professor Ramsay amidst some laughter. Broggerite, a mineral which resembles cleveite, merely having the small quantity of yttrium therein contained replaced by thorium, is a useful source of the gas. In justice to Hillebrand he said that uraninite does give off large quantities of nitrogen, and he had received a letter from this chemist saying he had observed numerous strange and new lines in the spectrum, but had not been bold enough to assume he had discovered a new element. The remainder of the work was devoted to a study of the properties of the gas. He had taken the density of three samples obtained from the following sources:—(1) Cleveite, (2) broggerite, (3) broggerite. The gases were in all cases finally passed over ignited magnesium, copper oxide, and phosphoric anhydride. All three gave a density of 2·2. Lest a misunderstanding might arise, he pointed out that he gave his original figure, 3 9, as the maximum density, not as the true density. The exact figure for the three samples was 2 218, and on further long heating over ignited magnesium he had reduced this to 2 133. He had only about 30 c.c. to use for the determination, but this admitted of a reading with an error of less than 2 per cent. The wave-length of sound was also determined by the lycopodium method, and the result of the ratio of specific heats at constant volume and constant pressure was found to be 1 652. For a monatomic gas this should theoretically be 1·66. So that the monatomicity was apparently established. Helium is the least soluble of all the gases, 100 volumes of water dissolving only 0·7 volume of gas. There were two lines in the spectra of helium and argon which were identical. Perhaps this points to the existence of some other gas or gases in both, which might allow the density of argon to be brought down to 38 and come just after chlorine in the periodic law None of the minerals yielding helium re-absorbed it, and the question as to whether it has combined or not is still unsettled. The spectrum of argon was then displayed, and the remainder of the papers, including one on the presence of argon in the gases of rock-salt, by Professor Bedson, were taken as read.

CRUSHED WOOD-FIBRE has been adapted to the making of splints by Dr. Tracey, of Boston, U.S.A. The material is extremely light, strong, clean, and adaptable.

New Companies and Company News.

HEWITTS (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of a chemist and druggist carried on at 41 Crook Street, Bolton, Lancs. The first subscribers (each with one share) are:—G R Airey, 115 Mauldreth Road, Fallowfield, chemist; Wm. Hewitt, Wm. Hewitt, jun., and G. M. Hewitt, all tea-dealers, of 173 Chorley New Road, Bolton; M. Williams, 9 Wood Street, Bolton, tea-dealer; G. Williams, 174 Clarence Street, Bolton, tea-dealer; R. Hayes, 44 Pleasant Street, Bolton, tea-dealer. Registered without Articles of Association. Registered Office, 41 Crook Street, Bolton.

CURANILLO (LIMITED).—Capital 10,000*l.*, in 1*l.* shares. Objects: To prepare and sell the compounds known as "Curanillo" (Dr. Caleb's Fruit Cure), "Norton's Lumbago Cure," "Norton's Gout and Rheumatic Cure," "Norton's Dentifrice," "Norton's Pain-killer," and "Norton's Pills." The first subscribers (each with one share) are:—T. H. Lewis, gentleman, and Mrs. A. A. Lewis, Fairholme, Montpelier Street, Brighton; Mrs. A. M. Burt, c/o Barclay, Bevan & Co., Brighton; W. L. Neels, 3 Westbourne Terrace, Leyton, gentleman; R Tod, Newlyn, Penzance, gentleman; C. O. Martin, 23 Bartlett's Buildings, E.C., manufacturer; F. M. P. Green, 77 Eleanor Road, Hackney, artist. The first directors (to number not more than five) are: C. O. Martin and Ralph Tod. Qualification, 50*l.* Remuneration, as the company may decide.

THE directors of the firm of Messrs. A. & R Thwaites & Co. (Limited), chemists and mineral-water manufacturers, Dublin, recommend the declaration of an interim dividend of 7 per cent. on the ordinary shares of the company.

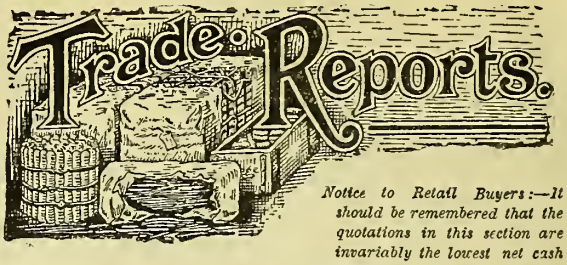
THE transfer books of Messrs. Boots (Limited), chemists and druggists, &c., are closed until June 30, for the purpose of preparing warrants for a quarterly interim dividend at the rate of 6 per cent. per annum on the preference shares, and at the rate of 10 per cent. on the ordinary shares.

CARDIFF AËRATED-WATER COMPANY.—From the balance-sheet of this company just issued, it appears there was a loss on last year's trading account of 105*l.* 7*s.*, and adding to this 152*l.* 15*s.* 6*d* for depreciation, and 50*l.* 16*s.* for syphons written off, there is a balance of 308*l.* 18*s.* 6*d.* on the wrong side. On the previous year there was a debit balance of 378*l.* 4*s* 8*d.*, making a total of 637*l* 3*s.* 2*d.* The company owes 872*l* to the Wilts and Dorset Bank.

THE GLASS LINED SYPHON COMPANY (LIMITED) announces the issue of 40,000 shares of 1*l.* each. 10,000*l.* (being the remainder of the capital) is already paid up. The company manufacture syphons and seltzogenes according to Mr. H. J. Nicole's patents, and have 60,000 of their syphons in use; but they are not able, without further capital, to execute half the orders which have been sent them. The directors think they will be able to pay a dividend of from 7½ to 20 per cent.

CASH SUPPLY STORES (LIMITED).—On Saturday, June 22, Mr. Justice North, in the Chancery Division of the High Court of Justice, sanctioned a petition for the reduction of the capital of this company, which was incorporated in 1889 to carry on the business of chemists and druggists and grocers, at Halifax, in Yorkshire, from 15,000*l.* to 12,000*l*, on the ground that capital to the extent of 3,000*l.* had been lost since 1891. The loss was attributed to the general depression of trade in the district, and to the neglect and bad management of the late managing director, who died recently.

TO KEEP CARBONATE OF AMMONIA.—Mr. C. L. Weidler says an excellent plan is to keep it in a stone jar provided with perforated false bottom. A small quantity of ammonia solution kept in the bottom all the time will ensure a first-class chemical, the liberation of the ammonia gas from the solution supplying that lost by the carbonate.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

---

42 CANNON STREET, E.C., *June* 27.

The Liverpool Drug-market.

Our correspondent, writing on June 26, says that the market in general has been very quiet, in consequence of the nearness of the end of the half-year and the unsettled political situation. There has been more inquiry for *Gums* during the week, and there seems some prospect of the long period of stagnation in this article being broken by a lively business. *Canary-seed* has been quiet at the rates lately advised, and the operators do not seem inclined to force it up at the moment. *Castor oil* has fallen slightly, in consequence of somewhat heavy arrivals; and price of the good seconds Calcutta is now $2\frac{1}{16}d.$ to $2\frac{3}{32}d$; first-pressure French, $2\frac{1}{32}d.$ to $2\frac{1}{16}d$, and second pressure 2*d.* per lb. For *Kola-nuts* the only bids at auction were 5½*d.* to 8*d.*, which did not come up to holders' views, and the lots were withdrawn. *African ginger* is steady, at the late figures of 27*s.* to 30*s.* per cwt. *Chillies* (*Sierra Leone*) are very firmly held, and the finest have realised 35*s.* per cwt., while some are still held for 37*s.* 6*d.* per cwt. *Arsenic* is very firm at 15*l.* per ton, and some makers have withdrawn from the market. *Cream of tartar* is held steadily at 68*s.* to 69*s.* per cwt. *Anise* (*Chilian*) is firmly held at 23*s.* per cwt.

The Newcastle-on-Tyne Chemical Report.

Our correspondent, writing on June 26, remarks that the chemical-market is somewhat quiet. Still, for the time of the year the exports are considerable, although there are few alterations to note in prices. Stocks, however, are not excessive, and owing to the partial stoppage of the works this week on account of the races they will be reduced still further. The increased activity in the glass-trade has induced a very large demand for salt cake, inquiries for quotations for forward being large for this article, as well as for the 96–98-per-cent. precipitated *Carbonate of barytes*, the consumption of the latter product by glass and brick manufacturers being now very considerable. Inquiries for the mineral product are also numerous, especially for shipment to Russia. *Bleaching-powder* continues very firm, at 7*l.* per ton for softwood casks, on rails 7*l.* 5*s.* per ton, f o b., and 7*l.* 10*s* for hardwood casks. Owing to the weather *Soda crystals* are somewhat scarce, prices being slightly in favour of sellers; quotations stand at 35*s* to 37*s.* 6*d.* per ton in bags. There is no change to report in the position of *Hyposulphite of soda*, the demand continues heavy and prices are easily maintained. *Salt cake* firm, at 17*s* 6*d.* to 22*s.* 6*d.* per ton. Pure white *Sulphate of alumina*, 4*l* 2*s.* 6*d.* per ton net, and in fair request. *Recovered sulphur* as before. *Oxalic acid*, 3¾*d.* per lb. net, any port. The scarcity of *Yellow prussiate* has caused an advance in prices to 8*d.* and 8¼*d.* per lb. *Sulphocyanides* steady. *Caustic soda*, in good demand at for 76–77-per-cent., 9*l.* 10*s.* per ton net; 70 per-cent., 7*l.* 15*s.* per ton net. *Chloride of barium* and *Blanc fixe* (precipitated *Sulphate of barium*) have met with fair inquiry, the mineral sulphate also being firm. *Silicate of soda*, 140° TW, 3*l.* 7*s* 6*d.* per ton net; 100° TW, 3*l.* per ton net; 75° TW, 2*l.* 12*s* 6*d* per ton net; brown

lump, 4*l* 7*s*. 6*d*.; and green lump, 4*l* 5*s* per ton net. *South Durham salt* remains steady, at 9*s*. to 9*s*. 6*d*. per ton, f.o.b., Tees.

The Amsterdam Cinchona-market.

Our Amsterdam correspondent, writing on June 26, states that the bark sales to be held in Amsterdam on July 18 next will consist of 5 905 packages, or about 535,002 kilos. of Java bark. According to the varieties, it consists of:—464.342 kilos *C Ledgeriana*, 23,820 kilos. *Succirubra*, 3,761 kilos. *Officinalis*, 43,079 kilos. *Hybrids*, which is a big quantity. The Amsterdam bark-stock in first hand, including above quantity, and made up to June 24, consists of 14,978 packages private bark, 1,635 packages Government bark. Almost the entire quantity of bark sold at and after last sale has been shipped to consumers. The actual stock is, therefore, considerably smaller than a few months ago.

ACACIA.—*Soudan* gums in rather large supply, 180 packages being offered at sale; 6 of these sold without reserve at 45*s*. per cwt. for hard ambery sorts, and for 44 serons partly hard and glassy palish sorts 47*s*. 6*d*. per cwt. was accepted.

ACONITE.—Of 15 bags *Japanese* 5 sold to-day at 22*s*. 6*d*. per cwt.

ALOES.—*Cape* aloes was not offered at auction to-day. Of *Curaçaos* only 133 boxes were shown, all of which were bought in, medium to fair liver at 35*s*. to 45*s*. per cwt.; there was practically no demand for this article. *East Indian* aloes is firmly held for good *Socotrine*, which is quoted at from 65*s*. to 70*s*. per cwt., although some holders seem to be inclined to advance the quotations; at auction 190 kegs were all bought in. For 40 boxes very common *East Indian* aloes dark and hard no bids whatever could be obtained.

ANNATTO SEED.—Dull of sale at 4½*d*. per lb. for good bright *Madras*; 27 packages of that kind were bought in to-day. According to advices just received from New York, the receipts there of annatto-seed from Jamaica have been very much below the average for some time, with the result that the price has advanced to the parity of 37*s*. 6*d*. per cwt.

ARAROBA.—Ten cases fair rather brown quality were bought in at 1*s*. 8*d*. per lb.

ARECA-NUTS.—Very quiet. The nominal price is 9*s*. per cwt.

BALSAM, CANADA.—At auction to-day 2 casks of fair quality were shown. They are held for 1*s* 6*d*. per lb. In New York the market is easing off somewhat, but there is a report to the effect that in the collecting districts more money is asked owing to the alleged expectation of shortage in the coming crop.

BALSAM (COPAIBA).—Steady. Three casks *Maranham*, good thick yellow, were bought in at 1*s*. 9*d*. per lb. to-day. It is said that there have been no arrivals in New York recently of Maranham or Angostura, although there have been some considerable importations of Pará and Central American balsam.

BALSAM TOLU.—At auction 4 cases of hard pale and dark mixed tolu, said to be part of one of the lots in dispute to which we referred recently, were offered. They sold at 1*s*. 6*d*. per lb., which shows a decline of 2*d*. per lb. on the recent quotations. Privately, however, holders are firm at 1*s*. 7½*d*. to 1*s* 8*d*. per lb. In America the price of tolu is said to be advancing, the parity of 1*s*. 8*d*., c.i.f., for large, and 1*s*. 8½*d*., c.i.f., for small, tins being now quoted.

BENZOIN.—Neglected in all varieties. Of *Siam* gum only two cases ordinary siftings, in dull hard block, were offered and sold at 70*s*. per cwt. Of *Sumatra* gum some 250 cases were shown, of which only 7 sold at 7*l*. 5*s*. per cwt. for medium seconds, fair almondy centres and very false packed. Thirty cases *Palembang* benzoin brought from 26*s*. to 30*s*. for woody to fair quality.

BIRD-LIME.—Ten cases *Japanese* were bought in at 1*s*. 3*d*. per lb. to-day.

BUCHU.—Quiet. No sales were made at to-day's auctions; 31 packages of new import, long narrow genuine, but very dark and dull-looking leaves were bought in at 7*d*. per lb., and a parcel of fair round yellowish mixed leaves at 3¼*d*. per lb.

CAFFEINE.—The position practically remains unchanged, although prices on the spot are, if anything, again a shade higher, 27*s*. 6*d* to 28*s*. being required for September-October delivery. Sales have recently been made at 21*s*. to 22*s*., and we believe that 23*s*. per lb. is now asked by one of the makers.

CAMPHOR (CRUDE).—The market is again improving steadily. About 500 piculs *Formosa* camphor are said to have been sold this week at 155*s*., c.i.f., for June-August and 157*s* 6*d*., c.i.f., for April-June shipment. Cablegrams from China quote 147*s*., c.i.f. terms, for present shipment; and of *Japan* camphor, distant shipment there are buyers, but no sellers, at 152*s*. 6*d*. per cwt., c.i.f. terms. At auction 62 cases *Formosa* camphor were bought in at 162*s*. 6*d*. per cwt.

CANARY-SEED.—After the large transactions which took place at the beginning of the summer, the demand has fallen off very considerably. New-crop *Turkish* seed, however, has been selling at from 41*s*. to 43*s*. per quarter, c.i.f. London, for September-October shipment. On the spot the price is 46*s*. to 48*s*. per quarter. *River Plate* seed offers at from 39*s*. for common to 44*s*. per quarter for fine quality, *Moroccan* at 50*s*. to 53*s*., and *Spanish* at 53*s*. to 56*s*. per 464 lbs.

CANNABIS INDICA.—For 60 robbins dusty loose dark tops 1½*d*. per lb. is asked. Another lot of 21 robbins fair green stalky tops was bought in at 3½*d*. per lb.

CARDAMOMS.—A fairly good demand was shown to-day for all kinds, while really fine cardamoms realised extreme rates and were briskly competed for. Of 159 packages 132 found buyers at the following figures:—*Ceylon Mysore*, very fine bold soft palish, 4*s*. 1*d*. to 4*s*. 2*d*.; medium to bold pale, 2*s*. 6*d*. to 2*s*. 7*d*.; medium slightly yellow to pale fair, 2*s*. 1*d*. to 2*s*. 3*d*.; small to medium pale, 1*s*. 11*d*. to 2*s*.; small pale, 1*s*. 10*d*.; medium yellow and brown, 1*s*. 7*d*. to 1*s*. 10*d*.; small to medium pale split, 1*s*. 8*d*. to 1*s*. 9*d*.; very small pale, 1*s*. 8*d*.; mixed sizes, partly specky and brown, 1*s*. 3*d*. to 1*s*. 5*d*.; ordinary small brownish, 1*s*. 1*d*. per lb. For *Seed* 1*s*. 9*d*. to 1*s*. 10*d*. per lb. was paid.

CASCARILLA.—Three bales of fair small greenish dark were bought in at 37*s*. 6*d*. per cwt. to-day.

CASSIA FISTULA.—Of a parcel of 41 bags fair pods newly imported from Jamaica 9 sold at 18*s*. per cwt.

CHLORATE OF POTASH.—The improvement has not been maintained very long, and lower quotations again prevail. In Liverpool 4⅞*d*. per lb. f.o.b. would be accepted to-day both on the spot and for forward delivery over the year. The demand from the East seems to have fallen off entirely, and in America it is said that "bears are at work."

CINCHONA.—At the London bark auctions on Tuesday a rather small supply of bark was offered, the 8 catalogues comprising of:—

	Packages		Packages	
Ceylon cinchona	672	of which	491	were sold
East Indian cinchona	524	"	484	"
West African cinchona ..	93	"	93	"
South American cinchona ..	422	"	27	"
	1,711	"	1,095	"

The demand was fairly good, and the bulk of the offerings sold at very steady rates, a slight increase on the last sale prices being occasionally paid. Since the auctions the bulk of the Bolivian cultivated Calisaya, which was bought in at high prices, has been disposed of. The average unit was fully ⅝*d*. per lb.

The only parcel of any importance at to-day's auctions was one of 96 serons *Loxa*, recently imported from Payta, in South America. It sold, with good competition, at from 9½*d* to 11½*d*. for good, partly papery mixed quill, of nice aroma; 7¾*d* to 8¼*d*. for somewhat ordinary thin and broken quill; and from 5½*d*. to 7½*d*. for damaged bark. Two bales damaged *Cartagena* quill were bought in at 1*s*. per lb.

COCAINE.—The position remains practically the same as reported in our last issue, with the exception that it is doubtful whether anything could be actually had now under 14*s*. 6*d*. per oz. minimum price for bulk.

COCA-LEAVES.—Fine *Peruvian* leaves are scarce and held for 1*s*. 4*d*. per lb. privately. At auction 14 packages broken

but bright green *Truxillo* leaves were shown; for this 11*d.* per lb. is asked. A case of brown but good strong *Huanoco* leaves sold at 1*s.* per lb.

Colocynth.—Very firmly held. Fair pale partly seedy *Turkish* apple is held for 2*s.*; broken and dark to good bright *Spanish* (of which 13 cases were shown) at 10*d* to 1*s.* 3*d.* per lb.

Copper Sulphate.—Firm, at 15*l.* 2*s.* 6*l.* to 15*l.* 15*s.*, according to brand. In Liverpool the price for good quality is 15*l.* 10*s* per ton, f.o.b.

Coriander.—The first arrival of new coriander-seed has just been received, and sold at a considerable decline upon the nominal rates lately prevailing. For July-August shipment still lower figures would be accepted, and, if the crops prove satisfactory, much lower values are likely to prevail. At to-day's auctions prices were decidedly lower. About 120 packages *East Indian* were offered, of which 94 sold, partly without reserve, at 7*s.* 6*d.* for sound, and from 5*s.* down to 3*s.* 6*d.* per cwt. for damaged East Indian, very dull and chaffy.

Croton-seed.—Scarce and wanted. The value of fair quality would probably be from 30*s.* to 32*s* 6*d.* per cwt.

Cubebs.—The last market-price for good blue Singapore berries was 50*s.* per cwt. To-day, however, two parcels sold by auction at a decline of about 8*s.* or 10*s.* per cwt.; one being a lot of 75 bags from Singapore, fair brown clean berries, not stalky, which realised from 34*s.* to 35*s.* per cwt., the other a lot of 16 bags dark ordinary stalky berries from Bombay, for which only 32*s.* 6*d.* per cwt. was obtained. Other parcels were bought in at from 45*s.* to 50*s.* per cwt.

Dragon's blood.—A small parcel of dragon's-blood in reed, good bright to rather broken and somewhat damp, was bought in at 13*l.* per cwt.; the last price paid for this variety was 11*l.* 12*s.* 6*d.* Of Singapore lump, about 25 cases were bought in at prices ranging from 6*l.* 5*s.* for ordinary cake to 11*l.* for fine bright lump.

Ergot of Rye.—Quite neglected. One or two small lots were offered to-day, but no sales were made; 4 bags mouldy and dull ergot, from Hamburg, were bought in at 8*d.* per lb.

Fenugreek.—Quiet, at from 8*s.* to 10*s.* per cwt. for dull to fine yellow Moroccan.

Galbanum.—A single case of 1½ cwt. was shown at to-day's auctions; it is held for 2*s.* 6*d.* per lb.

Gamboge.—Slow of sale. Of 41 packages offered only a single case sold, rather dull partly run pipe ricy mixed in fracture at 8*l.* per cwt. Good bright pipe partly run was bought in at 10*l.* 10*s.*

Guaiacum.—Steady. Of 18 cases offered to-day, the 4 best sold at 1*s* 11*d.* to 2*s.* per lb for bright glassy block; 1*s.* 4*d.* for broken block, mixed with loose almonds, slightly woody; ordinary dull block was bought in at 7*d.* per lb.

Gum Ammoniacum.—This drug was in very considerable supply at to-day's auctions, about 132 packages being offered: for fair yellow detached drop, slightly seedy mixed, a bid of 37*s* per cwt. was refused, and another offer of 37*s* 6*d.* for pale almondy block, partly drossy mixed, was also rejected. The finest lot, consisting of good picked clean drop, was bought it at 47*s.* 6*d.* per cwt

Gum Elemi.—Lower. Fifty-one boxes from Singapore were all sold; good pale clean gum of good aroma at 28*s*; medium, but rather dirty ditto, from 26*s.* 6*d.* down to 22*s.* per cwt.

Gum Kino.—The nominal price of fine genuine kino is 24*l.* per cwt., but there is scarcely any to be had. Two cases of a gum resembling kino in appearance, but non-astringent, imported from Bombay, were bought in at 20*l.* per cwt.; five cases woody and earthy mixed East Indian "kino" at 50*s.* per cwt. It is singular that, in spite of the extremely high value of genuine kino no imports of that description have taken place, either from India or Australia, for a long time.

Honey.—Very slow of sale. *Jamaican* honey was bought in at 22*s* 6*d.*, for dull brown liquid to 24*s* for thick orange. Of 276 cases *Australian* honey not a single lot was sold at auction; 15 cases thick white candied *Peruvian* are held for 28*s.* per cwt.

Ipecacuanha.—*Brazilian* root very firmly held. Seventy-two bales were offered to-day, but only 11 sold at firm prices to an advance of 1*d.* or 2*d.* per lb. on the last sale-rates, good annulated, partly wiry, sound root realising 4*s* to 4*s.* 2*d.*, fair to fine plump, damaged, from 4*s.* to 4*s* 6*d.* per lb. Privately a good many bales have been disposed of since the auctions.

Jaborandi.—Fine quality is wanting, but a few odd parcels of dull stalky leaves from Brazil and *viâ* Buenos Ayres were bought in at 6*d.* and 9*d.* per lb. at to-day's auctions.

Jalap.—Firmly held at 11*d.* per lb. for good Vera Cruz on the spot. At auction 28 bales of this description were bought in at 1*s*, but 1*d.* less would have been accepted.

Kola.—Much lower. No sales were effected at to-day's auctions, but privately it would be possible to buy at 1*s.* per lb. qualities which quite recently were worth 1*s* 4*d.* per lb. At auction no less than 61 packages, mostly *West African*, were offered, and bought in at from 1*s.* to 1*s.* 10*d* per lb., according to quality; for small chips an offer of 6*d.* was refused; one parcel of fresh, very dark and mouldy, kolas from West Africa sold, subject to approval, at 1*d* per lb.

Lobelia Herb is reported scarce from New York, and no arrivals can be expected for some months to come, when the new crop will come on the market. The price in small packets is 6½*d.* per lb. c.i.f., packed loose in cases 4*d.* per lb. c i f. *Seed* 8½*d.* per lb. c i f. terms.

Lycopodium.—Supplies are now very small, and prices are tending higher, 200*s.* per cwt., c.i.f. terms, being required.

Matico.—Four bales ordinary brown leaves were bought in at 10*d.* per lb.

Mirbane.—The present quotation of oil of mirbane in large quantities is 6½*d.* per lb.; for small wholesale lots from 8*d.* is asked.

Musk.—Quite neglected, though there was a rather small supply of *Tonquin* pods; both first and third pile were bought in, the only bid made being one of 41*s* for small to bold fairly-well trimmed but partly spurious third-pile pods; this offer was rejected, and the parcel bought in at 50*s.* A tin of *Assam* pod-musk sold at 22*s.* per oz.

Myrrh.—Quite neglected; 85 packages were offered at sale to-day, but only four, consisting of dusty siftings, sold at 45*s.* per cwt., subject to approval; fair to good native picked gum was bought in at from 92*s.* 6*d.* to 5*l.* 10*s.* per cwt.

Nux Vomica.—The already low price of this article has been further reduced by the sale of nearly 400 bags to-day at a decline of from 1*s* 6*d.* to 2*s.* per cwt. on the last auction rates. *Cochin* seed, good silky small to bold grey and pale mixed, realised 8*s.* to 8*s.* 3*d.* *Madras*, small to medium, sound, rather dark, 3*s.* 6*d.* to 3*s.* 9*d.*; a better and paler lot 4*s.*; small to medium slatey, partly damaged, from 3*s.* down to 2*s.* per cwt. For a parcel of 88 bags medium to bold palish and dark mixed from *Bombay*, a bid of 7*s.* per cwt. is to be submitted.

Oil (Castor).—It is reported from Calcutta that the castor-seed crops in Bengal and up-country are below the average this season, and it is therefore, thought that castor oil will not further decline in price, in spite of the absence of demand that has lately prevailed. In London the market is neglected. At auction to-day 10 cases fair seconds from Bombay were offered, but no bids were made, even at 2*d.* per lb.; the price asked is 2⅛*d.*

Oil (Cod-liver).—Fairly steady. Prices vary from 160*s.* to 170*s.* per cwt., c.i.f. terms, for best 1895 Lofoten oil. The Finnmarken fishing is now at an end for the year, the total estimated output in the district being 2,515 hectoliters, against 4,453 hectoliters in 1894. The following figures refer to the total output of oil in Norway during the last six years:—

Year ..	1895	1894	1893	1892	1891	1890
Barrels ..	16,400	19,743	28,796	18,973	22,175	25,300

Among the 16,400 barrels of oil produced this year, it is thought that only about 12,250 will be available for medicinal purposes. The quality of the liver has been poor

everywhere, and the oil produced contains, it is said, a larger average percentage of stearin than usual. The *O., P, & D. Reporter* thinks the Newfoundland cod-liveroil may this year play a greater part in the markets than ever before. The fishing is just about to open, and the oil will not be available until the latter part of the summer. It is claimed by the exporters that Newfoundland oil refined by the Norwegian process and strained through ice does not thicken even at very low temperatures, and that when once its excellence is recognised it must realise equally good values as Norwegian. Much crude, poorly prepared Newfoundland oil, however, is yearly put into the market, and this has so interfered with the credit of the article that many chemists will not handle Newfoundland oil at all, no matter what its quality.

OILS (ESSENTIAL).—*Lemongrass oil* is selling in a retail way at 1⅝*d* per oz. *Star-anise oil* s'ow of sale at 6*s*. 3*d*. per lb. *Cassia* dull of sale at the recent reduction in value. At auction to-day 10 cases of Fisher's *Citronella oil* were bought in at 2¾*d*. per oz American *peppermint oil* is firmer, 10*s*. per lb. being now asked for HGH; at auction 5 cases were apparently sold at that price. D & O oil in tins has been advanced 6*d*. per lb, to 8*s* per lb net, London. *Rose oil* (East Indian) neglected, and bought in at from 3¾*d* to 5*d*. per oz. *Cinnamon oil* was bought in at 1*s* per oz. to-day, and good bright *Cajuput oil* at 2*s* 8*d*. per bottle. Two half-coppers each of "*Lemon*" and "*Orange*" *oil* sold to-day at 2*s*. per lb. each, and for two half-coppers of "hergamot" 2*s*. 6*d*. per lb. was paid. Reports from Messina state that the stock of *Orange oil* has been much reduced, and is now a small one; otherwise the market shows no change. *Oil of lemon* guaranteed to show the following constants—opt. rot. + 62·8 at 15° C., sp. gr 0·8568 at 15° C., and to contain 7·30 per cent. of citral—offers at 3*s*. 3*d*. per lb., c.i f. terms.

OPIUM.—The London market remain quiet with little or no business. The following are the quotations:—*Soft shipping*, good to fine, 10*s*. 6*d* to 11*s*. 6*d*.; *Smyrna*, good to fine, 7*s*. 6*d*. to 9*s*.; *druggists' seconds*, 7*s*. to 7*s*. 6*d*; ordinary to fine *Constantinople*, 7*s*. to 9*s*.; *Persian* (in very small supply), 11*s*. to 12*s* 9*d*. per lb. Our Smyrna correspondent writes, under date of June 15:—"Several buyers of large quantities could not find people willing to sell, even 2*d*. per lb. above market rates was not sufficient inducement. The owners' reason for not wishing to sell is that they are not authorised by their interior clients to do so at our cheap prices. However, we shall see lower figures and an easier market after two or three weeks, for by that time we shall be flooded with new opium, which will have to be sold for needy holders to make progress."

ORRIS-ROOT is advancing rapidly in Italy, 80*s*. being now quoted on the spot for good pale selected *Florentine*. At auction to-day 8 bags of rather yellow mixed sorts were bought in at 70*s*. per cwt.

OTTO OF ROSE.—It is now reported that the distillation this year has resulted in a yield of about 2,400 kilos., which is in excess of that of last season. Nevertheless, it is not at all certain that there will be a reduction in the price, as it is notorious that there is no old stock left in the markets.

PAREIRA BRAVA.—Five bales of fair quality were bought in to-day at 35*s*. per cwt.

QUICKSILVER.—The importers' price is 7*l*. 10*s*. per bottle, second-hand holders offer at 7*l*. 8*s*.

QUINCE-SEED.—Exceedingly scarce. A newly-imported parcel of 5 bags from the Cape was announced for sale, but not actually offered, as it was not yet ready.

QUININE remains quite neglected. There are sellers of second-hand B and S or H B quinine in bulk on the spot at 12⅝*d*. per oz, but no buyers.

RHUBARB.—Very slow of sale. Of 119 cases shown to-day only 22 found buyers, at the following prices:—*Canton*, flat medium to extra bold good coat, seven-eighths pinky one-eighth dark fracture, 1*s* 3*d*; round medium to bold fair coat, three-fourths pinky one-fourth grey fracture, 1*s*. 2*d*; medium to bold flat, seven eighths pinky one-eighth dark fracture, 1*s*. 1*d* per lb. *High-dried*, small to medium, three-fourths pinky one-fourth dark fracture, good coat, 10*d*.; ditto, rather better fracture, 9¾*d*, subject to approval.

SARSAPARILLA.—*Mexican* root sold at very low prices to-day, 30 bales of fair chumpy quality, but damaged, realising from 2¾*d*. to 3¼*d* per lb *Grey Jamaican* root is in good demand at full prices, 57 bales selling readily to-day at 1*s*. 3*d*. for sound, and 1*s*. 2*d*. to 1*s*. 3*d*. per lb. for damaged root. *Honduras* root firmly held: ordinary quality, at 1*s* 2*d*. (1*s*. 1*d* refused); good, at 1*s*. 3*d*. to 1*s*. 4*d*. per lb. Damaged *Native Jamaica* sold at 8½*d*. per lb.

SCAMMONY.—Twenty-four bales root sold to-day at 36*s*. per cwt.

SENNA.—Good *Tinevelly* leaves scarce and in demand, but very firmly held. Of 140 packages offered to-day 44 sold at steady rates: medium to good bold greenish leaves, 4½*d*. to 6*d*.; fair small to medium greenish, 3*d*. to 4*d*.; yellowish and dull to ordinary dark, from 2¾*d*. down to 1¾*d*. per lb. A fine parcel of *Alexandrian* senna was bought in: fine bright leaf, at 2*s*. 3*d*.; good, 1*s*. 1*d* to 1*s*. 3*d*.; broken leaf, 4*d*. to 5*d*; siftings, 3½*d*. to 4*d*; pods, 5½*d*. to 6*d*. per lb.

SHELLAC.—At the close of last week the market became somewhat firmer. 126*s*. cash terms being then paid privately for TN second *Orange*. At auction on Tuesday 775 cases were offered, of which 455 sold with some difficulty at lower prices, the decline on *Orange* lac being 2*s*. to 3*s*. for good and 5*s* for blocky, and on *Garnet* lac 2*s*. to 3*s*. per cwt. *Button lac* showed no alteration. The following prices were realised: Orange fine reddish second 132*s*. to 133*s*., partly blocky to good TN standard 120*s*. to 123*s*, low resinous to fair blocky from 60*s* up to 116*s*. per cwt. *Button lac*, ordinary first in circle 110*s* *Garnet*, blocky to good AC 100*s*. to 104*s*., flat ruby G 101*s*. per cwt. The market closes quietly with sales of 100 cases *Garnet* AC on the spot at 104*s*. cash

STAR-ANISE.—The nominal price of good genuine *Chinese* is 65*s* to 70*s*. per cwt. At to-day's auctions, 18 cases very common burnt and broken seed offered without reserve, but were bought in. The exports of star-anise from Pakhoi, in China, in 1894 amounted to 804,667 lbs., against 1,204,400 lbs. in 1893.

VANILLA.—A fairly large supply sold to-day at steady prices, the bulk being of poor quality. The following rates were realised:—7 to 8 inch, very fresh, 18*s*.; 5 to 7½ inch, 13*s*.; 7½ inch medium brownish, slightly crystallised, 15*s*. 6*d*.; 5½ inch, 13*s*.; dry foxy from 9*s*. 3*d*. down to 3*s*. per lb.

WAX (BEES').—Lower all round, the decline being about 2*s*. 6*d*. on Madagascar, 5*s* on East Indian, and from 7*s*. 6*d*. to 10*s*. on Australian bees-wax. *Jamaican* wax was mostly bought in, only 13 out of the 25 packages fair selling at from 7*l*. 17*s*. 6*d*. for red and brown mixed to 8*l*. 5*s*. for good orange. Fair *Australian* sold at 7*l*. 5*s*., *Italian* at 7*l*. 10*s*., and white bleached Calcutta, without reserve, at 6*l*. 7*s*. 6*d*. per cwt. For *Zanzibar* 6*l*. 10*s*. was paid, and four barrels Aden realised 65*s*. subject to approval. Of *Madagascar* wax there was a large supply, about 650 packages sold at 7*l*. 5*s*. to 7*l*. 10*s*. for fine brown and yellow, and from 7*l*. 2*s*. 6*d*. down to 6*l*. 15*s*. for ordinary dark mixed.

WAX (JAPAN).—Fifty cases of fair pale squares sold to-day, subject to approval, at 25*s*. per cwt.

TRADERS AND THE WEIGHTS AND MEASURES ACTS.—On Thursday afternoon, June 27, the second meeting of the committee appointed in April last, at a joint conference of inspectors of weights and measures and manufacturers of weighing-apparatus, was held at the House of Commons. Mr. Jesse Collings, M.P., presided, and among those present were the principal officers of the Society of Inspectors of Weights and Measures and representatives of leading firms of makers of weighing-appliances. The committee decided to recommend that the Acts should be so amended as to give the Board of Trade increased functions and authority; that uniform regulations should be drafted as to the examination and testing of all forms of weighing and measuring apparatus used for trade purposes; and that, as far as possible, all local authorities should be required to accept these regulations. The committee will meet again next Thursday, when Mr. Giles, of the Federation of Grocers' Associations of the United Kingdom, will give evidence as to the anomalous condition of the existing law. The committee also invite evidence from any other trade-associations who may desire to be heard.

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Wholesaler Defiant.

Sir,—Your issue of June 22 contains an "excellent" letter from "Cepia." May we trouble you with one word about this matter? If any such action is taken, the wholesalers like the silversmiths of old in Ephesus, will rise like one man, and their voice shall be heard. The common law of England cannot be trampled upon with impunity.

Yours truly,

London, June 26. Wholesaler. (81/64)

Cutting.

Audi Alteram Partem (78/41) writes to say that he is amused at the correspondence, or, rather, the proprietors' share in it, because he thinks they are the cause of cutting, owing to their having supplied grocers, drapers, &c. He concludes by saying:—"The remedy seems to me to deal with firms who do their business with chemists only, or, as your correspondent 'Cepia,' in *C. & D.*, June 22, suggests, form an association. Until such scheme is tried, I am afraid there is no way out of the difficulty."

What is 10-per-cent. Profit. on Cost Price.

Sir,—Mellin's food costs at the present time 18*s.* 6*d.* per dozen; carriage on gross lots to this town is 6*s.*; then there is return carriage on empties, which will account for another 3*d.* per dozen, making total net cost 19*s.* 3*d.* per dozen, exclusive of expenses of postage and bank charges. One would think a 10-per-cent. profit on this cost should bring the retail selling-price to 1*s.* 10*d.*, and my price was raised accordingly. As, however, I found a neighbouring grocer was continuing to sell at 1*s.* 9*d.* I corresponded with Messrs. Mellin, hoping they would use their influence to induce my neighbour to bring his price up to what I consider is a 10-per-cent. profit. I enclose the reply received.

Yours truly,

Anti-cutting Agreement. (80/60.)

[Messrs. Mellin's reply is to the effect that as Messrs. —— conform with their terms they cannot write to them, although they regret that they cut so fine.]

Constructive Criticism of the B.P.

Sir,—Speaking as one of the rank and file of pharmacy, I should say there can be no doubt as to the appreciation of your really practical series of articles on the B.P. Having regard, however, to the prominence given to the subject by Sir Richard Quain in the summary of his discourse, which you reproduce on page 774 of the current volume, I would put it to you whether you should not have arranged that at least one of the articles should have been devoted to the discussion of his third contention—viz., that "regard must be had to the interests and education of pupils who have to make themselves acquainted with the work." My own opinion has long been that from this point of view it has been as unsatisfactory as any other; and if it could be rendered of more value to apprentices by including really positive as well as accurate information on materia medica—say, as required by the examination syllabus—and perhaps more particularly in explaining the reason for many of the characters and tests which to the uninitiated must and do really appear more like "problems" than anything else, for which the solution must be sought elsewhere, the compilers would thereby earn the esteem and gratitude of an important section of the trade. C. C. (78/62.)

[This is a subject which Professor Attfield has treated fully in his annual reports, and we think the interests of students will be safe in his hands.—Ed.]

Pharmacy at the Seaside.

Sir,—I am doing a round of the chemists, endeavouring to obtain information regarding the state of pharmacy in the northern watering-places. Scarborough, as everybody knows, is a charming seaport, and its resident population is that of a good-sized town, so that chemists have not to depend entirely on visitors for a living, which is fortunate, as the season extends only from July to September. There are a goodly number of pharmacies studded about the town, some of them very fine in appearance—notably those of Messrs. Clare & Hunt. Their South Cliff branch is the finest I have seen in my perambulations twice round the world. There are two others very much like it—viz., Messrs. Frazer & Green's, of Glasgow, and Grattan & Co's, of Belfast; but Clare & Hunt score on the ground of situation and the sea-view.

Cutting seems to have found its way here, and there are many titles of businesses intimating that that is their banner of business—such as "The So-and-So Cash Chemist," "The Hull Drug Company," and "Taylor's Drug-stores," who are just opening another branch. I have talked about this matter with the principal houses here, and the best means of defence chemists should adopt, and we concluded that the best remedy would have been for the chemists of Scarborough to have arranged a syndicate amongst themselves to run a cash drug-stores on the cutting principle, so that no other firm could undersell, thus keeping the field to themselves. This programme, extended and detailed, seems to me to form the nucleus of protection, which chemists undoubtedly want. There is little doubt that the profits of chemists must be maintained on the basis of professional profits in general, as the average turnover will not allow of small profits, such as grocers and drapers are content with.

I was at Whitby the other day, and there found some very nice-looking pharmacies, all apparently doing very well. Mr. Brooks, one of the leading chemists, gave a cheerful account of things, and looks forward to having a very good season. I wanted to look at the Liquor Carnis Company's advertisement in the *C. & D.*, and so popped into the nearest shop—Mr. J. B. Corner's—and there lay The Chemist and Druggist quietly on his desk, as though it were his daily study. It is the same everywhere I have been, whether in Calcutta, Yokohama, Natal, or New Zealand.

Yours truly,

Scarborough, June 11. W. Shepperson.

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

Terpinol.—This can be obtained from Messrs. James Sinclair & Co., Marshalsea Road, Southwark, S.E.

Terpinol has been adopted, in addition to carbolic acid, by the Medical Department of the G.P.O. for disinfection of their offices, and is manufactured by Mackey, Mackey & Co., 175 Grange Road, Bermondsey, S.E.—W. F. Coupland.

To Make the Hair Grow.—It may interest subscribers generally to know that *F. J.* (Hyères) reports that the treatment recommended on April 27, page 610, has proved satisfactory. "The hair has ceased to fall out, and new hair is growing in."

74/29. **Huggin's Ozone-paper** (not bone-paper) is the thing. May be got from any P.M. house.

Ice-cream Freezers.—If the correspondent who wanted this information sends us a stamped and addressed envelope, we will send it to him.

*** *Unusual pressure on our space this week compels us to hold over several pages of Correspondence and other matters.*

20 HIGHEST AWARDS.

The Modern "Judgment of Paris,"

[Paris Exhibition, 1889.]

GOLD MEDAL.

PEARS' Soap

The only Gold Medal awarded

SOLELY FOR TOILET SOAP

at any International Exhibition in the world

Representing the consensus of opinion of more than

100 Analysts or Soapmakers

the chief Experts of the world.

TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),
W. RENAUD, Managing Director.
33 Farringdon Road, London.

FRENCH & AMERICAN MEDICINES AND TOILET ARTICLES.

A Large Stock held by

ROBERTS & CO.

LONDON: 76 New Bond Street, W. | **PARIS:** Rue de la Paix 5.

Inquiries invited. *Agencies undertaken.*

36

THE

"STANDARD OF QUALITY."

ESSENTIAL OILS

MANUFACTURED OR SELECTED BY

DODGE & OLCOTT,

NEW YORK, U.S.A.

ESTABLISHED 1798.

OILS BAY, CARAWAY, CLOVES, CUBEBS, PEPPERMINT, SANDAL, SASSAFRAS, SPEARMINT, TANSY, WINTERGREEN, WORMWOOD AND MANY OTHERS.

AGENTS FOR THE UNITED KINGDOM—

ASHMORE & SON,

6 MINCING LANE,

London, E.C.

AGENT FOR THE CONTINENT OF EUROPE—

CHAS. WESTPHAL,

195 Upper Thames Street,

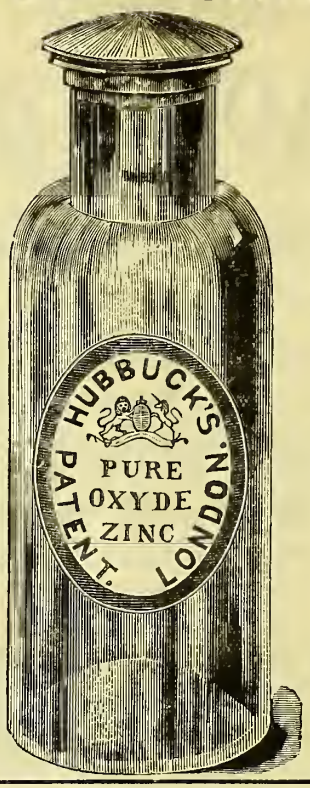
London, E.C.

HUBBUCK'S PURE OXIDE OF ZINC.

Sold by the following Wholesale Druggists, in Boxes of 7 *lbs. and* 14 *lbs., stamped by the Manufacturers; also in* 1-*lb. Boxes and* 1-*lb. Glass Bottles:—*

Allen & Hanburys.
Baiss Brothers & Co.
Barron, Harveys & Co.
Battley & Watts.
Bleasdale, Wm., & Co.
Burgoyne, Burbidges & Co.
Clay, Dod & Case.
Corbyn, Stacey & Co.
Davy, Yates & Hicks.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb.
Evans, Sons & Co.
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Harker, Stagg & Morgan.
Hatrick, W. R., & Co.
Hearon, Squire & Francis.
Herrings & Co.
Hill, A. S., & Son.
Hodgkinson, Prestons & King.
Hodgkinsons, Treacher & Clarke.
Horner & Sons.
Huskisson, H. O., & Co.
Ismay, John, & Sons.
Johnson & Sons (Lim.)
Lofthouse & Saltmer.
Mackey, Mackey & Co.
Oldfield, Pattinson & Co.
Raimes, Clark & Co.
Reynolds & Bransom.
Southall Bros. & Barclay.
Taylor, James.
Thompson, H. A.
Thompson, John (Lim.)
Tyrer, Thos., & Co.
Walker, Troke & Co.
Warren, A. & J.
Willows, Francis & Butler.
Woolley, Jas., Sons & Co. (Lim.)
Wright, Layman & Umney.
Wyleys (Limited).

Finlay & Brunswig, New Orleans.
Carter, Carter & Kilham, Boston.
Langley & Michaels, San Francisco.
Lazell, Dalley & Co., New York.
Lehn & Fink, New York.
McKesson & Robbins, New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaher, Philadelphia.
Schieffelin, W. H., & Co., New York.
Shoemaher, R., & Co., Philadelphia.
Weeks & Potter, Boston.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

of Pure Oxide; in fact, the impurities are not traceable.

THOS. HUBBUCK & SON, L^D.

(*Established* 1765),

24 LIME STREET,

LONDON, E.C.

Manufacturers of

White Lead, White Zinc, Paints, Oils, Colours, Varnishes, &c.

AUSTRALIAN OFFICE—
34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 3 Cwt.

HEWLETT'S
MIST. PEPSINÆ CO. c. BISMUTHO.

Price (in England) 10s. 6d. per pound.

Dose.—½ to 1 drachm, diluted. Packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., & 90-oz. Bots.

LONDON MEDICAL RECORD REPORT.

MISTURA PEPSINÆ COMPOSITA CUM BISMUTHO.

"This combination of Messrs HEWLETT's is one which has been extensively tested, and with good results. **It is justly popular in the profession as a very valuable and effective combination.** It serves not only to improve aspepsia, but to lessen the gastric pain and to facilitate difficult and painful digestion, without setting up any evils of its own. **It is a very good crutch for persons of weak stomach to lean on.**"—*January* 15, 1881.

INTRODUCED AND PREPARED ONLY BY [1]

C. J. HEWLETT & SON, Wholesale Druggists, 40, 41, & 42 Charlotte St., LONDON, E.C.

PLEASE NOTE CHANGE OF ADDRESS.

MACKEY, MACKEY & CO.

175 GRANGE ROAD, BERMONDSEY, S.E.

WHOLESALE DRUGGISTS, MANUFACTURING CHEMISTS.

MEDALS—Cape Town, 1877; Brighton, 1881; Cork, 1883; Dublin, 1884; International Inventions Exhibition, 1885.
GOLD MEDAL—International Health Exhibition, 1884.

Makers of Soluble Gelatine-, Pearl-, and Sugar-coated Pills, Tabellæ, Hypodermic Injections, Pessaries, Suppositories, Bougies, Pastils, Fluid Extracts, Oleates of the Metals.

SPECIALTIES—Mistura Bismuthi Co. (Tonic Digestive); Mistura Cerii Co. (and all Preparations of Cerium); Glycerol Pepsine et Euonymin (Digestive Cholagogue); Glycerol Podophylli (Cathartic); Mistura Cascaræ Sagradæ Co. (Tonic Laxative)
OL EUCALYPTI, P.B.

DRUGS AND CHEMICALS OF BEST QUALITY.

NEW REMEDIES & SPECIAL PHARMACEUTICAL PREPARATIONS, VETERINARY DRUGS & CHEMICALS.

Price Lists and Samples on Application.

MANUFACTURERS OF THE

"PREMIER" EXTRACT OF MALT

And Combinations.

Quotations and Samples on application.

TRADE MARK.

Pharmaceutical Preparations of Guaranteed Purity and Strength.

RAIMES, CLARK & CO.

ESTBD. 1816.

WHOLESALE AND EXPORT DRUGGISTS,

EDINBURGH.

EXTRACT. CASCARÆ LIQUID., B.P. and Miscible.

SYRUP. HYPOPHOSPH. CO.

GRANULAR PREPARATIONS.

SP. AMMONIÆ AROMAT.

SP. ÆTHER. NITROS.

MORRIS & CALLARD,

PONTAMMAN CHEMICAL WORKS,

AMMANFORD, R.S.O., CARMARTHENSHIRE,

MANUFACTURERS OF

ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1-040

ACETATE OF SODA, COPPERAS,

PURE WOOD NAPHTHA, SULPHURIC ACID & CHARCOAL

Telegraphic Address: "CALLARD, AMMANFORD." *Prices and Samples on application.* *Established A.D. 1840.*

NEPENTHE.

THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative *par excellence.* "Nepenthe" is registered under the Trade Marks Act, and is our sole property. *No other preparation* should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also *Double Strength Nepenthe*, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS, BRISTOL.

39

HIGHEST AWARD, CHICAGO, 1893.

T. & H. SMITH & CO., EDINBURGH & LONDON,

Are the ONLY MANUFACTURERS of the

SALTS OF MORPHIA

To whom, at the UNIVERSAL EXHIBITION, in PARIS, 1878, the

GOLD MEDAL WAS AWARDED.

NEW YORK Office—20 Cedar Street: DILLON & CO., Agents. [2]

THOMAS TYRER & CO.

Stirling Chemical Works, Stratford, London, E.

DIRECTOR OF LABORATORIES,

THOMAS TYRER, F.I.C., F.C.S., F.S.S.

PHOSPHORIC ACIDS AND HYPOPHOSPHITES,

Hydrogen Peroxide and Pure Acids, Bismuth, Mercurial and Iron Salts, Granular and Scale Preparations, Ethers, Essences, Spirits (in Bond). [3] [5]

FERRATIN

Is *the* Iron Preparation corresponding exactly with the Iron Compound which is ingested with Food, and which is found stored up in the tissues, especially in the Liver, as a reserve material for the formation of Blood.

Lancet writes: "The constitution of Ferratin is sufficient reason for believing it to be of the greatest service in anæmia and other conditions of blood impoverishment in which iron is indicated, and we are hardly surprised to learn on this score also that excellent clinical results of its use have been recorded."

British Medical Journal writes: "Far superior to Blaud's formula, which is considered the best of artificial combinations."

Samples and further particulars sent free to Members of the Medical Profession on application to

Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, LONDON, E.C.
Messrs. PARKE, DAVIS & CO., 21 North Audley Street, LONDON, W.

C. F. BOEHRINGER & SOEHNE,

WALDHOF, near MANNHEIM,

MANUFACTURERS OF

B. & S. BRAND **COCAINE** B. & S. BRAND

SULPHATE OF QUININE, and all other CINCHONA PREPARATIONS.

ALSO OF

ACETANILID, CAFFEINE CHLORALHYDRAT, CUMARIN, GALLIC ACID,

GLYCERINE, HELIOTROPIN, PHENACETIN, PYROGALLIC ACID,

SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

STOCKS KEPT IN LONDON, GLASGOW, AND DUBLIN.

AGENTS.—LONDON: Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, E.C. GLASGOW: Messrs. F. R. MUELLER & CO., 47 Waterloo Street. DUBLIN: Mr. JOS. LECKY, 26 Eustace Street.

Agents for Australia—Messrs. RABONE, FEEZ & CO., SYDNEY, N.S.W.

FARRINGDON STREET, LONDON, E.C.

Want it in Bulk?

Recently it has been impressed upon us that Chemists want to sell their own Meat Juice—or, in other language, other people's Meat Juice as their own—and want to buy it in bulk.

We recommend Chemists to do nothing of the kind, unless they are prepared to do like others—spend their money in building up a trade for their particular mark; but to those who have written us and spoken to us on the subject, with such great hopes of an enormous demand from the trade, we say, on and after the 1st proximo our arrangement for effectually dealing with orders for a palatable Meat Juice in bulk will be complete, and we shall be pleased to hear from likely buyers, as from the extent and perfection of our Plant, situate in the heart of Buckinghamshire, we can convert an unlimited number of Steers into Juice at very short notice. All we want is your support; and if you will say what it is you wish us to do—whether supply in bulk, how much, or whether in plain bottles, or with your own labels on?—it will receive our immediate attention.

THE LIQUOR CARNIS CO.

W. SHEPPERSON, Principal.

P.S.—Pray don't confuse this Meat Juice with Caffyn's Liquor Carnis, which is a pure solution of pure Juice of Squeezed Beef in its raw state, whereas the "Meat Juice" we are offering tastes more like the red gravy of Roast Beef.

LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL,

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Blaud's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

J. ROBBINS & Co. 147 OXFORD ST.

METHYLENE.

Obtained by the action of Metallic Zinc on Chloroform and Alcohol.
Discovered to be a general Anæsthetic by Sir BENJAMIN W. RICHARDSON in 1867.
1-lb. Stoppered Bottle, 12s.; ½-lb., 6s. 6d.; 4-oz., 3s. 6d.; 2-oz., 2s.

COMPOUND ANÆSTHETIC ETHER,
For producing Local Anæsthesia.
In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,
In 2-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,
First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

ETHYLATE OF SODIUM
(Sir BENJAMIN W. RICHARDSON'S Formulæ), for removing Nævi, &c.
In ½-oz. and 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

STYPTIC COLLOID,
For promoting the Healing of Wounds by the first intention.
In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16-oz., 12s.

CHARCOAL CAPSULES,
Containing Pure Vegetable Ivory Charcoal.
In Boxes, 2s. 6d. each.

J. ROBBINS & Co. 147 OXFORD ST.

GREAT REDUCTION IN PRICES!

DENOUAL'S MEDICINAL CAPSULES

ARE THE BEST AND CHEAPEST.

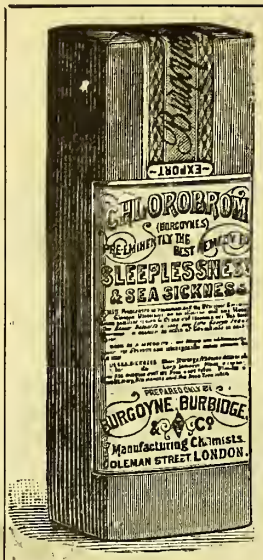
ON THESE **MEDICINAL CAPSULES** CHEMISTS ARE ALLOWED A LARGE PROFIT.

SANTAL OIL CAPSULES,
PERUVIAN MIXTURE CAPSULES,
COPAIBA BALSAM CAPSULES,
CUBEB OIL & COPAIBA CAPSULES,
MALE FERN CAPSULES, &c.

DENOUAL'S INJECTION.

All Drugs Warranted to be Genuine

JULES DENOUAL,
Carlton House, 4 New Cross Road, LONDON, S.E



CHLOROBROM.

Medical testimony shows this to be indispensable in cases of Sleeplessness and in the cure of Sea-sickness. It acts immediately, producing sound and refreshing sleep, and leaves no after-effects. It has been used on long and short voyages for sea-sickness with wonderful results, as may be seen from the testimonials we shall be pleased to send.

It is sold in 4, 8, and 16 oz. bottles.

MOXON'S EFFERVESCENT MAGNESIAN APERIENT.

A MOST AGREEABLE PURGATIVE.

This unique preparation unites the active *medicinal properties* of the most approved Saline Purgatives, with all the agreeableness of a glass of Soda-water.

For Bilious Affections, Indigestion, Gout, Heartburn, Habitual Costiveness, Gravel; and as a Cooling Purgative and Corrective of the Stomach after Excesses, &c., &c. It is the oldest and best remedy. Retail, 2/- and 4/-.

BURGOYNE'S "RED CROSS" BANDAGES.

Woven in Widths, and not torn from Calico, like ordinary Bandages.

These Bandages are possessed of great strength, are elastic, light, and porous. They are woven with a soft selvedge on either side, which cannot fray (like a torn Bandage), they expand equally with the middle, and will not cut in the least degree, the pressure being even throughout. For all surgical purposes these Bandages are superior to the old kinds. Where firm support is required, they will be found highly adapted to receive Starch or Plaster of Paris, on account of the penness of the texture.

BURGOYNE'S "RED CROSS" LINT.

This Lint will tear easily both ways, and has given great satisfaction in field and hospital practice at home and abroad.

The increasing demand for this brand of our Lint is sufficient guarantee of its excellence and great utility.

BURGOYNE'S COMPOUND DAMIANA ELIXIR.

This powerful remedy contains the active ingredients of *Damiana, Coca,* and *Nux Vomica,* with free *phosphorus,* and is a valuable stimulant, tonic, diuretic, and aphrodisiac. It acts directly upon the nerve centres, preventing and removing the sense of bodily fatigue. It is a powerful tonic to the digestive and nervous systems, and a true brain and nerve food, useful in cases of over-study, brain exhaustion, neurasthenic conditions, &c.

BURGOYNE'S DERMA-CURA.

A Marvellous Specific for the Cure of all Skin Diseases.

This remedy will be found immensely superior to goa powder or chrysophanic acid, and will be found a certain cure for eczema and Dhoby's itch.

It will be found invaluable in all cases of sprains, wounds, bruises, &c.

It is non-irritant, non-poisonous, non-corrosive, and cleanly in use. Retail, 1/6.

For Prices, &c., write to

BURGOYNE, BURBIDGES & CO.

12 & 16 COLEMAN STREET, LONDON, E.C.

"Premier" Ext. Malt.

ALSO IN COMBINATION WITH 25% OF

COD-LIVER OIL

Composition Essence

UNEQUALLED FOR ITS AROMA AND STRENGTH.

RAIMES & CO., WHOLESALE DRUGGISTS, YORK.

SANDAL WOOD OIL CAPSULES

In view of the recent exposure by Messrs. Pearmain & Moor of the fraud practised in these articles (see this Journal, June 7th, 1895), we beg to remind all Chemists who buy them that we give a printed or written guarantee as to the absolute purity of the contents of every box we send out, and thus remove any responsibility under the Food and Drugs Adulteration Act from the retailer. The standing of our firm and the name we have made in Sandal Wood Oil are in themselves a sufficient guarantee of the purity of the Oil we use in our Capsules. We must, however, profess our ignorance on the question of Foreign Sandal Wood Oil, as we have never bought any but English-drawn Oil since we have been in business. We print your own labels, with name and address, free of charge on Sample Orders. Prices on application.

BARTLETT HOOPER & CO.

134 UPPER THAMES STREET, E.C.

43

STANDARD MALT EXTRACT

RICHEST IN DIASTASE.

IS INVALUABLE FOR Invalids, Dyspeptics, Convalescents, Weakly Children and Infants.

Unrivalled in Keeping Qualities.

STANDARD MALT EXTRACT

IN COMBINATION WITH

COD LIVER OIL

Is Readily Taken by the Most Fastidious.

OF ALL CHEMISTS.

THE STANDARD MALT EXTRACT CO., LTD.

LONDON—23 Billiter Street, and LIVERPOOL—42 Castle Street.

SAMPLES SENT POST FREE TO MEDICAL MEN, QUALIFIED NURSES, & CHEMISTS ON APPLICATION.

SYMES & CO. LIVERPOOL Ltd.

MANUFACTURING PHARMACEUTICAL CHEMISTS EXPORT DRUG MERCHANTS,

IMPORTERS OF BRAZILIAN DRUGS, AMERICAN AND CONTINENTAL SPECIALITIES

ORIGINATORS AND MANUFACTURERS OF

OL. LAVAND. RECT. — Largely replacing the Mitcham Oil, 21/ lb.

OL. LIMONIS RECT. — Fine quality, keeps well. 6/6 lb.

Hydrobromic Syrup of Hypophosphites. LAC BISMUTHI. Lac Bismuthi et Cerii, &c.

CHEMICAL DISINFECTANT.

10 and 15% CARBOLIC Antiseptic and Deodorising Powder.
Bags and casks free.

ACENTS WANTED to supply Corporations and large users.

6d. and 1/- Decorated
4/- and 8/- per doz. Boxes.

Special terms for 5 gross and upwards, with agent's name and address thereon.

CHESHIRE BIRD LIME.

In 1d., 2d., and 3d. tins. Also in 1, 2, 3, and 7 lb. Tins and Casks, for large consumers and the trade.

FLY PAPER MATERIALS

Supplied in Wholesale quantities

SPECIAL TERMS.

"COAGULINE"

(TRADE MARK).

Transparent Cement for Broken Articles.

CUE CEMENT.

CUE-TIP FIXERS

(Brass or Wood).

TIPS, WAFERS, CHALKS.

A NEW WHITE CEMENT,

Inorganic, and almost Hydraulic.

TRADE MARK.

FOR STONE, PORCELAIN, POTTERY, and all VITREOUS SUBSTANCES.

Requires no preparation, and is easy and clean in application.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets, &c., &c., on application.

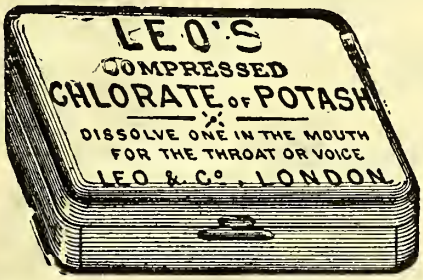
KAY BROTHERS LIMITED, Laboratory and Works, ST. PETERSGATE MILLS, **STOCKPORT.** Founded A.D. 1786. Incorporated 1887.

LEO'S COMPRESSED DRUGS

Ammon. Brom.
Ammon. Chlor.
Antifebrin.
Antipyrin
Bismuth Subnit.
Chloralamid
Ipecac. Powd.
Ipecac. & Opium
Pepsine, B.P.
Phenacetin
Potass. Bicarb.
Potass. Brom.

Maintain their high reputation against all comers for general excellence of quality and finish.

When ordering specify LEO'S.



They are supplied by all the Wholesale Houses.

COMPRESSED CHLORATE of POTASH.
CHLORATE OF POTASH & BORAX.

Quotations given for large and small quantities.

Potass. Iodide
Quinine
Salol
Salicin
Soda Bicarb.
Soda Mint
Soda Salicylate
Sulphonal
Sulphur Compound
Urethane
Voice (Potass. Chlor., Borax and Cocaine)

[2]

LEO & CO., 16 CREECHURCH LANE, LONDON, E.C.

C. R. HARKER, STAGG & MORGAN,

Wholesale & Export Druggists,
Manufacturers of Pharmaceutical Preparations.

A few of our Specialities—

SYRUP, EASTONII AND LIQUOR, 1 to 3.

SYR. HYPOPHOSPH. CO., Bright or Cloudy.

EMULS. OL. MORRHUÆ C. HYPOPHOS., In ½ and 1-lb. bottles.

NITROUS ELIXIR.

EXT. CASCAR. SAG. LIQUID.

LIQUID ANNATTO (Horse-shoe Brand) For Cheese and Milk.

LIQUID BUTTER COLOUR.

Write for Prices and Samples.

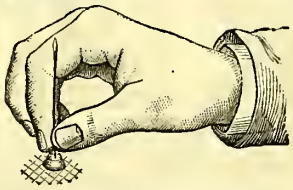
15 LAURENCE POUNTNEY LANE, LONDON, E.C.

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,

12 Pall Mall East, London, S.W.

SOLE AGENTS FOR

DR. WARLOMONT'S CALF VACCINE.



TRADE MARK, REGISTERED.

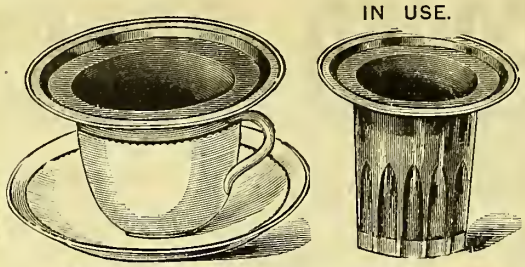
Tubes, 2s. each. Half Tubes, 1s. each.
Pomade in Vials, 5s., 10s., 20s.

HUMAN VACCINE from healthy children only, microscopically examined, and source quoted.—Three Tubes, two-thirds full, 5*s.*; Tubes one third, 1*s.* each. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 tubes. **PIN-POINTS** (uncharged) gratis with Vaccine if desired, or 1*s.* per doz. **VACCINE EJECTORS,** 1*s.* 3*d.* each, including postage.
OFFICE HOURS, 10 to 4. **SATURDAYS,** 10 to 2.

P.O.O.'s (including Postage, and crossed London and Westminster Bank), with orders, payable to

EDWARD DARKE, Secretary.

45



THE "LIMPET" AIR-TIGHT COVER

is one of the most valuable articles for domestic use ever invented. It provides in **AN INSTANT A PERFECTLY AIR-TIGHT COVER** for Glasses, Jars, Cups, Basins, &c., &c., preserving their contents for any length of time from Dust, Microbes, the action of the air, &c. Its use is invaluable in the sick-room or bedroom for covering milk, jelly, wine, beef-tea, &c. It may be used for a variety of other purposes, and is, in fact, one of the housekeeper's best friends. It meets with the warmest approval of the Medical Profession. It is strong, has no mechanism to get out of order, and can be cleaned in a moment.

VARIOUS SIZES KEPT IN STOCK.

Send for a sample 4-in. cover, suitable for tumblers. Post free 10 stamps from the Manufacturers

DAY & CO.

WESTON-SUPER-MARE.

KAHNEMANN & KRAUSE,

VIENNA,

Manufacturers of all kinds of

ASEPTIC AND ANTISEPTIC SURGICAL DRESSINGS, &c.

Special Novelties of the Vienna Medical School, as used by Drs. BILLROTH, BRAUN, CHIARI, MOSETIG, &c., &c.

SOLE MANUFACTURERS OF THE

NEW PATENT BANDAGE ROLLS

SPECIALLY ADAPTED FOR HOSPITAL USE.

These Rolls, which, on account of their greater convenience and cheapness, are rapidly replacing the ordinary calico bandages, are made in bleached and unbleached cottons and gauzes, from 33 inches to 36 inches wide, from which bandages of any width can be easily cut as required, the edges remaining quite firm and smooth.

Each Roll is packed separately in a box, and has attached to it a gauge divided into inches to cut by.

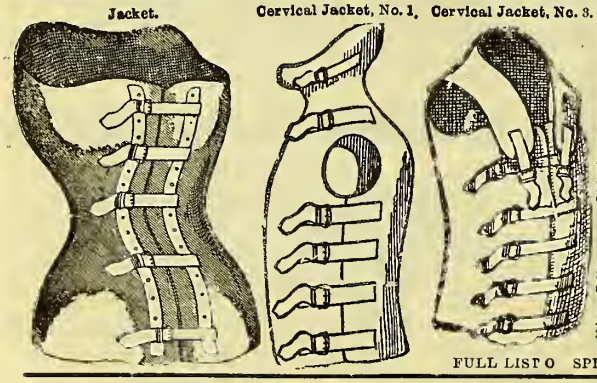
AGENT FOR GREAT BRITAIN—

H. GODWIN, 2 St. George's Avenue, **ALDERMANBURY, E.C.**

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, **J. T. COCKING, PLYMOUTH.**

Jacket. Cervical Jacket, No. 1. Cervical Jacket, No. 3.

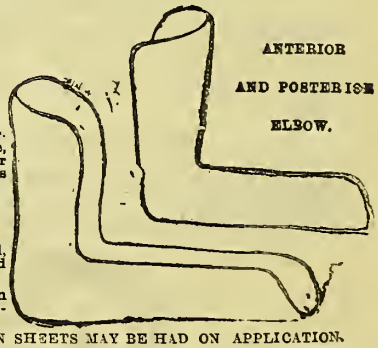


JACKET
(In case of slight deformity.)

INSTRUCTIONS FOR MEASUREMENT.
Circumference at axilla.
" waist.
" hipe.
Length from axilla to great trochanter.
In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.
In all cases it must be stated if for male or female.

CERVICAL JACKETS.
Same measurements required, and circumference at neck, and length from neck to axilla

Any part of the Jacket can in the process of manufacture be left soft.



FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

If you Buy Well you can Sell Well.

FOR DRUGGISTS' SUNDRIES, SURGICAL INSTRUMENTS

AND

COUNTER SPECIALITIES,

YOU CANNOT DO BETTER THAN BUY FROM

F. SCHUTZE & CO., 36a Aldersgate Street, LONDON, E.C.

If you have not had a copy of our New Price List, send for one at once; it will pay for its perusal.

NITROGLYCERINE TABLETS

(MARTINDALE).

These are preferred to the alcoholic solution, being in accurately divided doses, and in a perfectly safe, stable, and portable form. If kept dry they will keep for years in any climate. **In Boxes, Retail, 2/6 and 4/6 each.**

For export to hot climates, corresponding quantities are sold in Bottles. For Hospitals and Dispensing, in Bottles, 2-oz., 4-oz., and 8-oz. Wholesale quantities, **22/6 per lb.** Bottle, subject to usual terms.

The above contain $\frac{1}{100}$ grain, or average dose, in each. They are also prepared one-half and double, as well as other strengths.

NITRITE OF AMYL CAPSULES (Martindale).

Encased in cotton wool and silk, containing 1, 2, 3, or 5 minims. Price 2/6 per box.

IODIDE OF ETHYL, BROMIDE OF ETHYL, AND CHLOROFORM CAPSULES (Martindale).

Similarly covered. Price 2/6 per box.

EFFERVESCING PREPARATIONS (Martindale).

SULPHATE of SODIUM, PHOSPHATE of SODIUM, SODIO-MAGNESIAN APERIENT, PIPERAZINE, PIPERAZINE with PHENOCOLL, ANTIPYRINE, EXALGIN, CITRATE of CAFFEINE, HYDROBROMATE of CAFFEINE, and SALICYLATE of LITHIUM.

Special Granular Effervescent Preparations prepared according to Recipe on short notice.

OZONIC INHALER (Martindale) & NASAL OZONIC INHALER.

For HAY FEVER and INFLUENZA.

PURE ALKALOIDS and their SALTS. FINE CHEMICALS and PREPARATIONS of RARE DRUGS.

W. MARTINDALE, 10 NEW CAVENDISH STREET, W.

SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

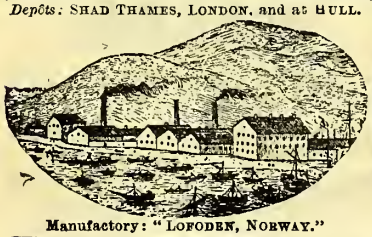
SURGEONS' TOWS. **PROTECTIVE LINT**

TELEGRAMS: "LINT LIVERPOOL."

WORKS: MARK ST. MILLS, LIVERPOOL.

THE LIVERPOOL LINT CO.

Depôts: SHAD THAMES, LONDON, and at HULL.



Manufactory: "LOFODEN, NORWAY."

Direct from the Manufacturers.

COD LIVER OIL.

THE LOFODEN COD LIVER OIL CO., 138 Minories, LONDON, E.C.

METHYLATED SPIRIT, HIGH-CLASS PETROLEUM AND PARAFFIN OILS, LUBRICATING AND PAINT OILS,

Turpentine, Pitch, Tar, Colours, Chemicals, and Disinfectants.

S. BOWLEY & SON, Refiners, Distillers, and Manufacturers, **WELLINGTON WORKS, BATTERSEA BRIDGE, LONDON, S.W.**

47

"LILY" BABY COMFORTERS.

CAUTION

To Shippers, Druggists' Sundriesmen,
AND
Wholesale and Retail Dealers in Baby Soothers.

It having recently come to our knowledge that BABY SOOTHERS fitted with CONCAVE SHIELDS are being offered for Sale which are not of our Manufacture, we beg to intimate to the Trade that such Concave Shields are an infringement of our Registered Design, No. 208065.

(*SIGNED*)

E. MARRIOTT & CO.

Manufacturers and Proprietors of the "Lily" Baby Comforters (fitted with Concave Shields),

HASTINGS.

June 8th, 1895.

GOOD LINES FOR

CHEMISTS' SPRING TRADE.

SPONGE BAGS.
NEW. CHECK SATTEEN.
No. 1 2 3 4 5 6 7
5/9 7/- 8/6 10/- 12/- 14/- 16/-
per doz.
Order above as Check pattern to prevent error.

SPRAY PRODUCERS.
DOUBLE BELLOWS.
14/- 15/- 20/- 27/- 30/- 33/-
per doz.

PUMP ACTION.
30/-, 36/-, and 39/- per doz.

FANCY PERFUME BOTTLES.

FLASK SHAPE.
As Fig. A.

SWAN NECK.
4/-, 4/6, and 5/6
per doz.

A Large Assortment kept in Stock.

For Illustrations see New List.

PHOTOGRAPHIC SUNDRIES
Supplied at Low Rates.

SPONGES ON CARDS
at Half the marked Retail Prices.

FLESH GLOVES.

	Per doz. pairs.
3*d*. Turco, White	1/10
6*d*. " "	2/8
6*d*. " Bound	3/-
1*s*. " "	4/-
1*s*. " " Super ..	5/-
1*s*. Calefacio, Brown	4/6

&c., &c., &c.

PERFUMES.
6*d*. Globular 3/9
1*s*. " 7/-
Above are quite new, and are selling well.

SMELLING-SALT BOTTLES.
New Emerald Green, very pretty; Assorted Patterns.
1*s*. Retail .. .. per doz. 8/-
Also Coral, Amethyst, and Crystal Glass.
Over 200 patterns to select from.

ENEMAS.
Cheap Black 19/6
"Flexible" 21/-
"Favorite" 22/-

FRANCIS NEWBERY & SONS,
DRUGGISTS' SUNDRIESMEN,
1 & 3 KING EDWARD STREET, LONDON, E.C.

"NATIONAL" {Trade Mark.
RUBBER ADHESIVE PLASTER.

On Strong Cotton Cloth.
Will always *stick at once*, and *perfectly*, in any temperature, without warming.

In Tins containing { 7½ inches × 1 yard, 7½ " × 6 ", 12 " × 5 " } and on Handsome Spools { ¼ in., ½ in., ¾ in., 1 in., 1½ in., 2 in., and 3 in. wide.

MANUFACTURED BY
A. de St. DALMAS & CO., LEICESTER.

VINCENT WOOD'S

is the NATIONAL HOUSE FOR

SURGICAL APPLIANCES

Trusses from 11*s*. 6*d*. per doz., springs guaranteed.

Special orders invariably despatched same day as received.

Goods procurable from all Wholesale Houses or from Patentees.

Established over 50 years.

Suspensory Bandages from 2*s*. per doz.

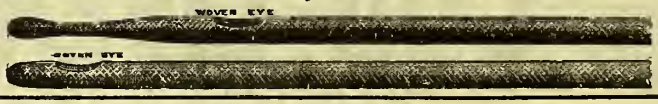
Head Office: 3 St. Andrew's St., HOLBORN CIRCUS, E.C.
Steam Works and Rubber Mills: RUSSELL ST., NOTTINGHAM;
Also at MAIN ST., CARLTON, NOTTS;
And Engineering Works: Railway Arches, Herne Hill, S.E.

ESCHMANN BROS. & WALSH.

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.



To be had of all Surgical Instrument Makers and Wholesale Houses.

ESTABLISHED 1775.

ALFRED WHITE & SONS,

MANUFACTURING CHEMISTS,

Manufacturers of Acids, Æthers, Sp. Æther. Nit., Sp. Ammon. Arom., Liq. Ammon., Soldering Solution, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth, Strontia, Zinc, &c.

CASTLE STREET, SAFFRON HILL, E.C.

Works:—WEST DRAYTON, MIDDLESEX. Telegraphic Address:—ETHERMETHYLATED LONDON."

TO THE TRADE.

No more Weeds! Noxious Vegetation of every description permanently destroyed by one application.

THE

"ACME" WEED KILLER

IS RECOMMENDED BY

Mr. W. G. HEAD, Crystal Palace,
Mr. LYNCH, Curator, Botanic Gardens, Cambridge,
And others, for destroying Weeds on Garden Walks, Carriage Drives, Roads, &c.

One application will keep Walks, &c., clear of Weeds for Eighteen Months.

RETAIL PRICES.—In 1 and 2 gall. tins, 2*s.* per gall. (tins included); 5-gall. drums, 1*s.* 6*d.* per gall.; 8 galls., 1*s.* 5*d.* per gall; 10, 15, 18, and 20 galls., 1*s.* 4*d.* per gall.; in 40-gall. casks, 1*s.* 3*d.* per gall. Used in the proportion of 1 gall. to 25 galls. water, and applied with an ordinary watering-can.

DOUBLE STRENGTH.

If desired we can supply the "ACME" WEED KILLER *double strength*, 1 gall. to be mixed with 50 galls. of water.

RETAIL PRICES.—1 and 2 gall. Tins, 3*s.* per gall. (tins included); 5 galls., 2*s.* 6*d.* per gall.; 8 galls., 2*s.* 4*d.* per gall.; 10, 15, 18, and 20 galls., 2*s.* 3*d.* per gall.; 40-gall. casks, 2*s.* per gall.

Carriage paid on 6 galls. in tins, or 5 galls. in drum.

POWDER WEED KILLER.

One small canister sufficient for 25 galls. water. Specially suitable for export.

TRADE TERMS ON APPLICATION.

We shall be pleased to supply (gratis) illustrated circulars with the name and address of tradesmen printed thereon, showcard, &c.

THE ACME CHEMICAL CO., LIMITED,
TONBRIDGE, KENT,
And CARLTON STREET, BOLTON, LANCS.
AGENTS WANTED EVERYWHERE.

DR. MARTIN'S PURE RUBBER BANDAGES.

Trade Mark

For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.

CAUTION.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations.*

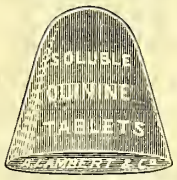
Complete Price List, Trade Discount, and Dr. Martin's Pamphlet post free.

PRICES.

No.		Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm	6	2¼	3/6
3.	Thick " " " "	6	2¼	4/-
1B.	Thin, for leg below knee	10½	3	5/6
1A.	Thick " "	10½	3	7/6
8.	Thin, for leg and knee	14	3	7/6
7.	Thick " "	14	3	9/6
9B.	Thin, for leg and thigh	21	3	10/6
9A.	Thick " "	21	3	13/6

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS,**
8 DUKE ST., MANCHESTER SQUARE, LONDON, W.

ABSOLUTELY RELIABLE.



TRADE PRICE MODERATE.

SALE UPWARDS OF 4,000,000.

A. LAMBERT & CO.'S SOLUBLE QUININE TABLETS.

A soluble Quinine Pessary of proved absolute reliability. Upwards of 4,000,000 have been sold without a complaint of failure.

We have a list of Special Articles for Chemists which command a ready sale at large profits. A Copy on application post free.

A. LAMBERT & CO.
Surgical Instrument and Appliance Makers,
16 DALSTON LANE, LONDON, N.E.

THE

SUSPENSORY BANDAGE

TO RECOMMEND IS THE

"SYRACUSE,"

With Self-Adjusting Loop at Back of Pouch.

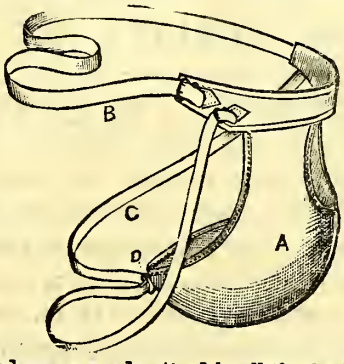
(PATENTED IN ENGLAND.

HAS THE LARGEST SALE OF ANY SUSPENSORY BANDAGE IN THE STATES.

8 SIZES—Large, Medium, and Small.

Made in Seven Qualities, to suit all Markets.

Each Bandage is carded separately, with Printed Guarantee.



Each Bandage bears a Guarantee to give satisfaction to wearer, or money returned at our expense.

COTTON POUCHES.

Nos.	10	16	21
	6/6	12/	18/ per doz.

SILK POUCHES.

Nos.	28	31	34	36
	24/	30/	48/	72/ per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.

HEARN'S BOTTLES

ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.), Wholesale & Export Glass Bottle Manufacturers, Eclipse Glass Works, Chatsworth Road, Clapton, **London, E.**

NEW PATENT

AIR-TIGHT CHEMIST JAR.

A slight turn of the knob presses the indiarubber Band against the glass, and renders the vessel absolutely air-tight. The Stopper is made of pure Nickel, of handsome shape.

INVALUABLE FOR SHOW BOTTLES, CHEMISTS, CONFECTIONERS, ETC.

Samples and Prices of all Chemists' Sundriesmen.

C. MELIN, [2]

37 CRUTCHED FRIARS, MARK LANE, E.C.

Section of the Nickel Stopper when closed.

ORIGINAL AND **SUPERIOR** ROUND-CORNERED

DISPENSING BOTTLES

GILBERTSON'S

(No. 118583)

ARE UNEQUALLED IN QUALITY AT PRICES CHARGED.

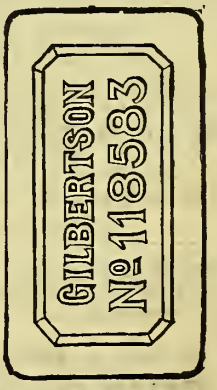
SPECIAL NOTICE.

We particularly ask those friends for whom we have cut NAME PLATES to stipulate when ordering lettered bottles that Gilbertson, No. 118583, is on the bottom of each bottle, as we understand Travellers (other than our own) are offering to utilise our Plates, which is manifestly unfair to us, we having introduced and put on the market at great expense Dispensing Bottles with Rounded Corners now universally in use.

Usual Discount. Crates Free. Carriage Paid.

11 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON.

Telegraphic Address:—"FRANGIPANI LONDON."



BOTTOM OF BOTTLE.

50